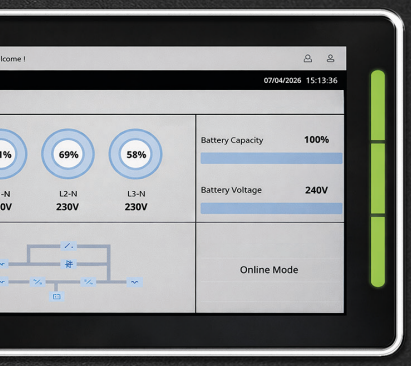
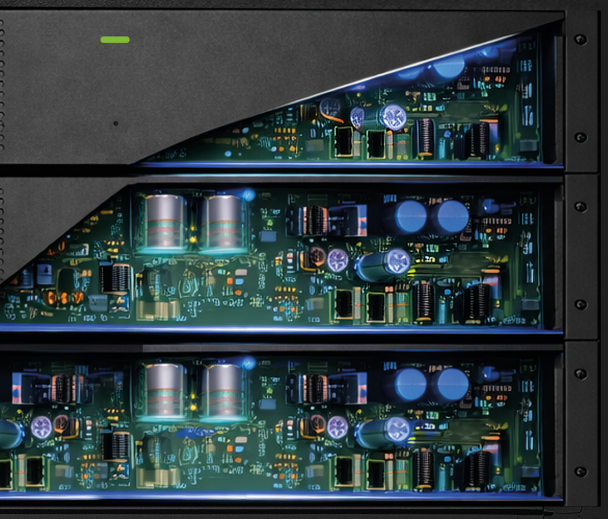
Professional Catalogue 2026







TECNOWARE®
ITALIAN POWER SYSTEMS

40 Years Ahead. And more.

40 YEARS ANNIVERSARY

English



For over 40 years, we have been manufacturing professional UPS systems designed to ensure continuous power where it is increasingly essential: critical infrastructure, data centers, and industrial automation.

Our partners in Europe, the Middle East, Africa, and South America find in Tecnoware efficient, scalable, service-oriented products, as well as advanced remote support services.

Experience, innovation, versatility, and AI integration drive our approach in developing reliable solutions that support our professional partners on their journey toward the future.

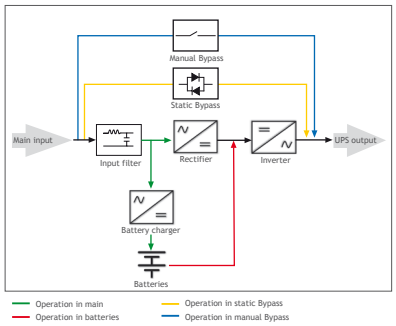
Tecnoware. 40 Years Ahead. And more.

40 YEARS ANNIVERSARY

TECNOWARE
ITALIAN POWER SYSTEMS

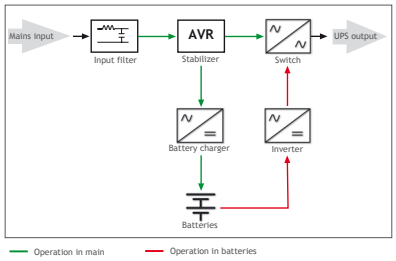
UPS Technology

According to the standard regulation: IEC 62040-3, UPS are classified and identified as follows:



On Line (VFI)
The On Line Technology is identified with the initials: VFI (Voltage and Frequency Independent). This technology is commonly called “double conversion”. During operations in mains, the UPS output is fed through the rectifier which converts the UPS input voltage from alternated to continuous voltage, in conjunction with the inverter which transforms again the continuous voltage into alternated voltage. This system permits to output voltage to be perfectly sinusoidal, clean and very stable in voltage and frequency, apart from problems present in the mains.

These include the: EVO DSP PRO Modular, EVO DSP PLUS Modular, Evo DSP PRO and Evo DSP PLUS.



Line Interactive (VI)
The Line Interactive, Technology is identified with the initials: VI (Voltage Independent). This means that while operating in Mains the UPS output frequency is dependent on the input frequency while the voltage is handled by the UPS. It is in fact through the stabilizer circuit that these UPS are able to protect the connected equipment from persistent voltage disturbances such as overvoltage, and Blackout.

These include the Exa Plus 1.550-3.000-4.500 VA and Era Plus RM 1.200-2.100 VA.

Electric phenomenon and solutions

UPS	Blackout	Dynamic Undervoltage	Dynamic Overvoltage	Undervoltage	Overvoltage	Lightning (Adding a discharger upstream)	Voltage Surge	Frequency Variation	Voltage Distortion	Voltage Harmonic
UPS Evo DSP Pro Modular 200-300-600-800-1.200 KVA	■	■	■	■	■	■	■	■	■	■
UPS Evo DSP Pro Modular 40-80-120-180 KVA	■	■	■	■	■	■	■	■	■	■
UPS Evo DSP Pro Modular 90-150 KVA	■	■	■	■	■	■	■	■	■	■
UPS Evo DSP Plus Modular 80-120-140 KVA 208 Vac	■	■	■	■	■	■	■	■	■	■
UPS Evo DSP Plus Modular 350-700 KVA 480 Vac	■	■	■	■	■	■	■	■	■	■
UPS Evo DSP Plus TT 80-100-120-160-200-240-300 KVA	■	■	■	■	■	■	■	■	■	■
UPS Evo DSP Plus TT 10-20-30-40-60 KVA	■	■	■	■	■	■	■	■	■	■
UPS Evo DSP Plus TM 10-20 KVA	■	■	■	■	■	■	■	■	■	■
UPS Evo DSP Pro TT 10-30-40-60-80-100 KVA	■	■	■	■	■	■	■	■	■	■
UPS Evo DSP Pro TM 10-20 KVA	■	■	■	■	■	■	■	■	■	■
UPS Evo DSP Pro TT RT 10-20 KVA	■	■	■	■	■	■	■	■	■	■
UPS Evo DSP Plus TT 30-40 KVA 208 Vac	■	■	■	■	■	■	■	■	■	■
UPS Evo DSP Plus TT 10-20 KVA 208 Vac	■	■	■	■	■	■	■	■	■	■
UPS Evo DSP Plus 6-10 KVA	■	■	■	■	■	■	■	■	■	■
UPS Evo DSP Pro RT 6-10 KVA	■	■	■	■	■	■	■	■	■	■
UPS Evo DSP Plus RT 1.200-2.400-3.600 VA	■	■	■	■	■	■	■	■	■	■
UPS Evo DSP Plus 1.200-2.400-3.600-5.500 VA	■	■	■	■	■	■	■	■	■	■
UPS CAB Evo DSP Plus 1.000-2.000-3.000 VA	■	■	■	■	■	■	■	■	■	■
Exa Plus 1.550-3.000-4.500 VA	■	■	■	■	■					
Era Plus RM 1.200-2.100 VA	■	■	■	■	■					

TECNOWARE®

SUMMARY

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Generator Accessories

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ATA Solar Inverter 1.200-3.500-5.500 VA Page 54

NEW

ON LINE

EVO DSP PRO TT MODULAR 400VAC

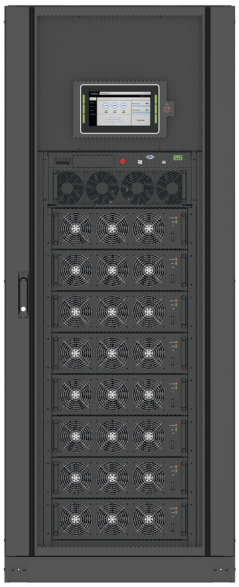
200-300-600-800-1.200

Together on

POWER FACTOR 1



DISPLAY **LCD**
color touch
up to 120 language



UPS Evo DSP PRO TT MODULAR
200-300-600-800



UPS Evo DSP PRO TT MODULAR
1.200

Main Specifications

- For Data Centers, Local Area Network (LAN), Industrial equipment, Electromedical equipment
- Power Factor 1
- 10" touch LCD display
- Compatible with Generators
- Easy Swap internal modules with redundant function
- Battery Recharge System managed by Microprocessor
- Modular internal structure for easy and quick maintenance
- Static and Manual Bypass
- High MTBF and low MTTR
- UPS Management Software compatible with Windows, Mac OS X, Unix, Linux, etc.

HIGH EFFICENCY 97%

Power Module



UPS 50KVA -100KVA Module

	MODULE for UPS EVO DSP PRO TT MODULAR	
Code	**FGCEDPM50TT**	**FGCEDPM100TT**
Nominal power	50KVA	100KVA
Active power	50KW	100KW
Dimension WxHxD	44x14x47,5 cm	47,5x14x70,5 cm
Weight	23Kg	47Kg
Input		
Nominal voltage	380Vac/400Vac/415Vac (3Ph+N)	
Output		
Nominal voltage	380Vac/400Vac/415Vac (3Ph+N)	
Battery		
Nominal voltage	±240Vdc, 40 batteries (20+20)	3 wires: ±240Vdc, 40 batteries (20+20) 2 wires: 480Vdc, 40 batteries
Maximum Charging Current	20A	30A

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High Italian Quality

PAGE 4

UPS Management Software

TECNOWARE

RoHS COMPLIANT CE

NEW

EVO DSP PRO TT MODULAR 400VAC

200-300-600-800-1.200

Specifications

	UPS EVO DSP PRO TT MODULAR 400VAC 200-300-600-800-1.200				
Module type	50KW (FGCEDPM50TT)		100KW (FGCEDPM100TT)		
Cabinet code	**FGCEDPM200TT50M**	**FGCEDPM300TT50M**	**FGCEDPM600TT100M**	**FGCEDPM800TT100M**	**FGCEDPM1200TT100M**
STS Power	200KW	300KW	600KW	800KW	1.200KW
Max. number of installable UPS Module	4	6	6	8	12
Max. capacity of installing	200KW	300KW	600KW	800KW	1.200KW
Power factor	1				
Technology	On-Line Double Conversion transformerless (VFI-SS-111)				
Dimension (UPS) WxHxD	60x160x75 cm	60x200x75 cm	80x200x100 cm	80x200x100 cm	120x200x110 cm
Weight	170Kg	220Kg	380Kg	390Kg	624Kg
Input					
Number of phases	3Ph+N				
Nominal voltage	380 / 400 / 415 Vac (220 / 230 / 240 Vac Ph-N) (selectable)				
Input voltage range	305V - 478V (176V - 276V Ph-N) to 100% load, 228V - 478V (130V - 276V Ph-N) to 50% load				
Nominal frequency	50/60 Hz (automatic selection)				
Input frequency range	40-70 Hz				
Frequency Sync range	± 0,5Hz, ± 3Hz, ± 5Hz (selectable)				
Input current harmonic distortion (THDi)	< 2% at 100% load				
Input power factor	≥ 0.99 at 100% load				
Output					
Number of phases	3Ph+N				
Nominal voltage	380 / 400 / 415 Vac (220 / 230 / 240 Vac Ph-N) (selectable)				
Voltage Regulation (On-Line and Battery mode)	≤ 1% Tipical (linear load); ≤ 2% Tipical (distorting load)				
Inverter waveform	Sinewave				
Nominal frequency	50/60 Hz (selectable)				
Frequency stability	50 Hz ± 0.1% - 60 Hz ± 0.1%				
Voltage Harmonic Distortion (THD)	≤ 1% (100% linear load); ≤ 3% (distorting load)				
Crest factor	3:1				
Overload capability (On-line mode)	100-110% for 60 minutes, 110-125% for 10 minutes,125-150% for 1 minute, >150 200ms				
Overload capability (Battery mode)	100-110% for 60 minutes, 110-125% for 10 minutes,125-150% for 1 minute, >150 200ms				
Transfer time	0 ms (Line <--> Batteria) - 0 ms (Batteria <--> Bypass)				
Efficiency	97% calculated in double conversion mode at 100% load according to standard 62040-3				
Bypass input					
Number of phases	3Ph+N				
Nominal power	380 / 400 / 415 Vac (220 / 230 / 240 Vac Ph-N) (selectable)				
Voltage range	-20% +15% default, -40% +25% (selectable)				
Nominal frequency	50/60 Hz (automatic selection)				
Frequency Sync range	± 0,5Hz, ± 3Hz, ± 5Hz (selectable)				
Overload capability	100~110% long time operation, 110~125% for 10 minutes, 125~150% for 1 minute, >150% for 1 second				
Transfer time	≤ 10ms (Bypass <--> Inverter)				
Batteries (fitted inside the external Battery Box)					
Type	Lead acid, sealed, maintenance free or lithium				
Batteries number	40 (20+20, ±240Vdc) default - selectable 30-50 pcs		3 wires: 40 (20+20, ±240Vdc) 2 wires: 40 (480Vdc)		
Charging time	6-8 hours (tipical)				
Maximum charging current	80A	120A	180A	240A	360A
Environmental specification					
Working temperature	From 0 to 55°C (recommended from 20 to 25 °C, for longer battery life)				
Humidity	< 95% without condensation				
Maximum altitude	3000 m				
IP protection	IP20				
Noise	< 72 dBA to 100% load, < 68 dBA to 50% load (1 meter)				
Certifications	CE (Standards: Low Voltage Directive IEC EN 62040-1; EMC Directive IEC EN 62040-2; classification IEC EN 62040-3)				
Interfaces					
Communication ports	1 RS232 port, 1 USB port, 1 RS485 port, Dry Contact				
SNMP Interface	Optional				
EPO (Emergency Power OFF)	Included				
Dry Contact Interface	Optional				
Parallel mode	Optional (2 UPS)				

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Accessories

Model	Code
Dry Contact DB9 Interface	FGCEDPDRY5
Dry Contact 9 PIN Interface	FGCEDPDRY6

Model	Code
SNMP Internal Interface	FGCNETAG13
ModBus RS485 Interface	FGCEDPRS485

High Italian Quality

UPS Management Software

TECNOWARE

RoHS COMPLIANT CE

NEW

ON LINE

EVO DSP PRO TT MODULAR 400VAC

40-80-120-180

Together on



POWER FACTOR 1



DISPLAY **LCD**
color touch
up to 120 language

Main Specifications

- For Data Centers, Local Area Network (LAN), Industrial equipment, Electromedical equipment
- Power Factor 1
- 10" touch LCD display
- Compatible with Generators
- Easy Swap internal modules with redundant function
- Battery Recharge System managed by Microprocessor
- Modular internal structure for easy and quick maintenance
- Static and Manual Bypass
- High MTBF and low MTTR
- UPS Management Software compatible with Windows, Mac OS X, Unix, Linux, etc.

HIGH EFFICENCY 97%

Power Module



UPS 10KVA -20KVA - 30KVA Module

	MODULE for UPS EVO DSP PRO TT MODULAR		
Code	**FGCEDPM10TT**	**FGCEDPM20TT**	**FGCEDPM30TT**
Nominal power	10KVA	20KVA	30KVA
Active power	10KW	20KW	30KW
Dimension WxHxD	40x8,6x49,5 cm (2U)		
Weight	12,6Kg	13,8Kg	13,9Kg
Input			
Nominal voltage	380Vac/400Vac/415Vac (3Ph+N)		
Output			
Nominal voltage	380Vac/400Vac/415Vac (3Ph+N)		
Battery			
Nominal voltage	±240Vdc, 40 batteries (20+20) default - selectable 30-50 pcs		
Maximum Charging Current	10A	20A	30A

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NEW

EVO DSP PRO TT MODULAR 400VAC

40-80-120-180

Specifications

	UPS EVO DSP PRO TT MODULAR 400VAC 40-80-120-180			
Module type	**10KW** (FGCEDPM10TT)	**20KW** (FGCEDPM20TT)	**30KW** (FGCEDPM30TT)	
Cabinet code	**FGCEDPM40TT10M**	**FGCEDPM80TT20M**	**FGCEDPM120TT30M**	**FGCEDPM180TT30M**
STS Power	40KW	80KW	120KW	180KW
Max. number of installable UPS Module	4	4	4	6
Max. capacity of installing	40KW	80KW	120KW	180KW
Power factor	1			
Technology	On-Line Double Conversion transformerless (VFI-SS-111)			
Dimension (UPS) WxHxD	44,2x57,5x75,1 cm	44,2x79,7x84,1 cm	44,2x97,6x84,1 cm	44,2x97,6x84,1 cm
Weight	52Kg	64Kg	88Kg	88Kg
Input				
Number of phases	3Ph+N			
Nominal voltage	380 / 400 / 415 Vac (220 / 230 / 240 Vac Ph-N) (selectable)			
Input voltage range	305V - 478V (176V - 276V Ph-N) to 100% load, 228V - 478V (130V - 276V Ph-N) to 50% load		324V - 478V (187V - 276V Ph-N) to 100% load, 228V - 478V (130V - 276V Ph-N) to 50% load	
Nominal frequency	50/60 Hz (automatic selection)			
Input frequency range	40-70 Hz			
Frequency Sync range	± 1Hz, ± 3Hz, ± 5Hz (selectable)			
Input current harmonic distortion (THDi)	< 2% at 100% load			
Input power factor	≥ 0.99 at 100% load			
Output				
Number of phases	3Ph+N			
Nominal voltage	380 / 400 / 415 Vac (220 / 230 / 240 Vac Ph-N) (selectable)			
Voltage Regulation (On-Line and Battery mode)	≤ 1% Tipical (linear load); ≤ 2% Tipical (distorting load)			
Inverter waveform	Sinewave			
Nominal frequency	50/60 Hz (selectable)			
Frequency stability	50 Hz ± 0.1% - 60 Hz ± 0.1%			
Voltage Harmonic Distortion (THD)	≤ 1% (100% linear load); ≤ 5% (distorting load)			
Crest factor	3:1			
Overload capability (On-line mode)	100-110% for 60 minutes, 110-125% for 10 minutes,125-150% for 1 minute, >150 200ms			
Overload capability (Battery mode)	100-110% for 60 minutes, 110-125% for 10 minutes,125-150% for 1 minute, >150 200ms			
Transfer time	0 ms (Line <--> Batteria) - 0 ms (Batteria <--> Bypass)			
Efficiency	97% calculated in double conversion mode at 100% load according to standard 62040-3			
Bypass input				
Number of phases	3Ph+N			
Nominal power	380 / 400 / 415 Vac (220 / 230 / 240 Vac Ph-N) (selectable)			
Voltage range	-20% +15% default, -40% +25% (selectable)			
Nominal frequency	50/60 Hz (automatic selection)			
Frequency Sync range	± 1Hz, ± 3Hz, ± 5Hz (selectable)			
Overload capability	100~110% long time operation, 110~125% for 10 minutes, 125~150% for 1 minute, >150% for 200ms			
Transfer time	≤ 10ms (Bypass <--> Inverter)			
Batteries (fitted inside the external Battery Box)				
Type	Lead acid, sealed, maintenance free or lithium			
Batteries number	40 (20+20, ±240Vdc) default - selectable 30-50 pcs			
Charging time	6-8 hours (tipical)			
Maximum charging current	40A	80A	120A	180A
Environmental specification				
Working temperature	From 0 to 55°C (recommended from 20 to 25 °C, for longer battery life)			
Humidity	< 95% without condensation			
Maximum altitude	3000 m			
IP protection	IP20			
Noise	< 65 dBA to 100% load, < 62 dBA to 50% load (1 meter)			
Certifications	CE (Standards: Low Voltage Directive IEC EN 62040-1; EMC Directive IEC EN 62040-2; classification IEC EN 62040-3)			
Interfaces				
Communication ports	1 RS232 port, 1 USB port, 1 RS485 port, Dry Contact			
SNMP Interface	Optional			
EPO (Emergency Power OFF)	Included			
Dry Contact Interface	Optional			
Parallel mode	Optional (2 UPS)			

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Accessories

Model	Code
Dry Contact DB9 Interface	FGCEDPDRY5
Dry Contact 9 PIN Interface	FGCEDPDRY6

Model	Code
SNMP Internal Interface	FGCNETAG13
ModBus RS485 Interface	FGCEDPRS485

High Italian Quality

UPS Management Software

TECNOWARE

RoHS COMPLIANT CE

NEW

ON LINE

EVO DSP PRO TT MODULAR 400VAC

90-150

Together on





Hot Swap Battery System

POWER FACTOR 1



DISPLAY **LCD**
color touch
up to 120 language

Main Specifications

- For Data Centers, Local Area Network (LAN), Industrial equipment, Electromedical equipment
- Power Factor 1
- 7" touch LCD display
- Compatible with Generators
- Easy Swap internal modules with redundant function
- Shared Battery Modules
- Battery module conteined in the same cabinet
- Battery Recharge System managed by Microprocessor
- Modular internal structure for easy and quick maintenance
- Static and Manual Bypass
- UPS Management Software compatible with Windows, Mac OS X, Unix, Linux, etc.

HIGH EFFICENCY 97%

Power Module



	MODULE for UPS EVO DSP PRO TT MODULAR
Code	**FGCEDPM30TTMB**
Nominal power	30KVA
Active power	30KW
Dimension WxHxD	44x8,6x67,8cm (2U)
Weight	23 Kg
Input	
Nominal voltage	380Vac/400Vac/415Vac (3Ph+N)
Output	
Nominal voltage	380Vac/400Vac/415Vac (3Ph+N)
Battery	
Nominal voltage	±240Vdc, 40 batteries (20+20)
Maximum Charging Current	20A

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Battery Module



	MODULE for UPS EVO DSP PRO TT MODULAR			
Code	**FBBEDPM120/00**	**FBBEDPM120/07**	**FBBEDPM120/09**	**FBBEDPM120/11**
Type	Half metal standard - Full metal optional			
Battery number	Ready for 10 pcs	10 pcs		
Battery type	-	12V 7,2Ah	12V 9Ah	12V 11Ah
Dimension WxHxD	10,7x15,5x73,5 cm			
Weight	4 kg	22 Kg	26 Kg	31 Kg

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High Italian Quality

UPS Management Software

TECNOWARE

RoHS COMPLIANT CE

NEW

EVO DSP PRO TT MODULAR 400VAC

90-150

Specifications

	UPS EVO DSP PRO TT MODULAR 400VAC 90-150	
Module type	30KW (FGCEDPM30TTMB)	
Cabinet code	**FGCEDPM90K30MB**	**FGCEDPM150K30MB**
STS Power	90KW	150KW
Max. number of installable UPS Module	3+2 (2 modules only redundance)	5
Max. capacity of installing	90KW	150KW
Battery Modules layers (4 Battery Modules each layer)	6 (24 Modules)	
Power factor	1	
Technology	On-Line Double Conversion transformerless (VFI-SS-111)	
Dimension (UPS) WxHxD	60x200x100 cm	
Weight	260Kg	280Kg
Input		
Number of phases	3Ph+N	
Nominal voltage	380 / 400 / 415 Vac (220 / 230 / 240 Vac Ph-N) (selectable)	
Input voltage range	305V - 478V (176V - 276V Ph-N) to 100% load, 228V - 478V (130V - 276V Ph-N) to 50% load	
Nominal frequency	50/60 Hz (automatic selection)	
Input frequency range	40-70 Hz	
Frequency Sync range	± 0,5Hz, ± 3Hz, ± 5Hz (selectable)	
Input current harmonic distortion (THDi)	< 3% at 100% load	
Input power factor	≥ 0.99 at 100% load	
Output		
Number of phases	3Ph+N	
Nominal voltage	380 / 400 / 415 Vac (220 / 230 / 240 Vac Ph-N) (selectable)	
Voltage Regulation (On-Line and Battery mode)	≤ 1% Tipical (linear load); ≤ 2% Tipical (distorting load)	
Inverter waveform	Sinewave	
Nominal frequency	50/60 Hz (selectable)	
Frequency stability	50 Hz ± 0.1% - 60 Hz ± 0.1%	
Voltage Harmonic Distortion (THD)	≤ 1% (100% linear load); ≤ 5% (distorting load)	
Crest factor	3:1	
Overload capability (On-line mode)	100-110% for 60 minutes, 110-125% for 10 minutes,125-150% for 1 minute, >150 200ms	
Overload capability (Battery mode)	100-110% for 60 minutes, 110-125% for 10 minutes,125-150% for 1 minute, >150 200ms	
Transfer time	0 ms (Line <--> Batteria) - 0 ms (Batteria <--> Bypass)	
Efficiency	97% calculated in double conversion mode at 100% load according to standard 62040-3	
Bypass input		
Number of phases	3Ph+N	
Nominal power	380 / 400 / 415 Vac (220 / 230 / 240 Vac Ph-N) (selectable)	
Voltage range	-20% +15% default, -40% +25% (selectable)	
Nominal frequency	50/60 Hz (automatic selection)	
Frequency Sync range	± 1Hz, ± 3Hz, ± 5Hz (selectable)	
Overload capability	100~110% long time operation, 110~125% for 10 minutes, 125~150% for 1 minute, >150% for 200ms	
Transfer time	≤ 10ms (Bypass <--> Inverter)	
Batteries		
Type	Lead acid, sealed, maintenance free or lithium	
Batteries number	40 (20+20, ±240Vdc)	
Charging time	6-8 hours (tipical)	
Maximum charging current	60A	100A
Environmental specification		
Working temperature	From 0 to 55°C (recommended from 20 to 25 °C, for longer battery life)	
Humidity	< 95% without condensation	
Maximum altitude	3000 m	
IP protection	IP20	
Noise	< 65 dBA to 100% load, < 62 dBA to 50% load (1 meter)	
Certifications	CE (Standards: Low Voltage Directive IEC EN 62040-1; EMC Directive IEC EN 62040-2; classification IEC EN 62040-3)	
Interfaces		
Communication ports	1 RS232 port, 1 USB port, 1 RS485 port, Dry Contact	
SNMP Interface	Optional	
EPO (Emergency Power OFF)	Included	
Dry Contact Interface	Optional	
Parallel mode	Optional (2 UPS)	

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Accessories

Model	Code
Dry Contact DB9 Interface	FGCEDPDRY5
Dry Contact 9 PIN Interface	FGCEDPDRY6

Model	Code
SNMP Internal Interface	FGCNETAG13
ModBus RS485 Interface	FGCEDPRS485

ON LINE

EVO DSP PLUS MODULAR 208 VAC PF 1

80-120-140

Together on



POWER FACTOR 1



Display touch LCD 10”

REDUNDANT POWER SUPPLY IN STS

NO RISK OF SHUTDOWN

Main Specifications

- For Data Centers, Local Area Network (LAN), Industrial equipment, Electromedical equipment
- 10” touch LCD display
- Compatible with Generators
- Power Factor 1
- Frequency converter
- Shared Battery Modules
- High MTBF and low MTTR
- UPS Management Software compatible with Windows, Mac OS X, Unix, Linux, etc.

HIGH EFFICENCY 96,5%

Power Module



20KVA UPS Module

	MODULE for UPS EVO DSP PLUS MODULAR HE
Code	**FGCEDPM20TT208**
Nominal power	20KVA
Active power	20KW
Dimension WxHxD	73,65x13,3x49 cm (3U)
Input	
Nominal voltage	3 x 208Vac/220Vac (3Ph+N)
Output	
Nominal voltage	3 x 208Vac/220Vac (3Ph+N)
Battery	
Nominal voltage	+/- 120Vdc (12Vdc x 20 pz)
Maximum Charging Current	8A

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EVO DSP PLUS MODULAR 208 VAC PF 1
80-120-140

Together on

Specifications

	UPS EVO DSP PRO TT MODULAR 208VAC 80-120-140		
Module type	20KW (FGCEDPM20TT208)		
Cabinet code	**FGCEDPM30A80K208**	**FGCEDPM30A120K208**	**FGCEDPM42A140K208**
Height	30U	30U	42U
STS Power	80KW	120KW	140KW
Type of installable UPS Module	20KW		
Max. number of installable UPS Module	4	6	7+1
Max. capacity of installing 20KVA Module	20-80KW	20-120KW	20-140KW
Power factor	1		
Technology	On-Line Double Conversion transformerless (VFI-SS-111)		
Dimension (UPS) WxHxD	60x147,5x110		
Weight	329Kg	428.5Kg	504Kg
Input			
Number of phases	3Ph+N		
Nominal power	3 x 208/220 Vac		
Input voltage range	182V ~ 253V to 90% ~ 100% load, 156V ~ 253V to 63% ~ 90% load, 121V ~ 253V to <63% load		
Power Factor	50/60 Hz (Automatic selection)		
Input frequency range	40Hz - 70Hz		
Input current harmonic distortion (THDi)	< 3% at 100% load		
Input power factor	≥ 0.99 to 100% load, ≥ 0.98 at 50% load		
Output			
Number of phases	3Ph+N		
Nominal voltage	3 x 208 Vac / 220 Vac		
Voltage Regulation (On-Line and Battery mode)	≤ 1% Tipical (linear load); ≤ 2% Tipical (distorting load)		
Inverter waveform	Sinewave		
Nominal frequency	50/60 Hz (selectable)		
Voltage Harmonic Distortion (THD)	≤ 2% (100% (linear load)); ≤ 4% (100% distorting load)		
Overload capability (On-line mode)	110% for 1 hour, 125% for 10 minutes, 150% for 1 minute, >150% for 200ms		
Overload capability (Battery mode)	105 ~110% for 1 hour, 111~125% for 10 minutes, 126~150% for 1 minute, >150% for 200ms		
Transfer time	0 ms (Line <--> Battery) 0 ms (Battery <--> Bypass)		
Efficiency	96,5%, calculated in double conversion mode at 100% load according to standard 62040-3		
Batteries			
Type	Lead acid, sealed, maintenance free		
Elements number	20 elements		
Nominal battery voltage	± 120 Vdc		
Charging time	6-8 hours (tipical)		
Maximum charging current	8A each 20KVA module		
Environmental specification			
Working temperature	From 0 to 40°C (recommended from 20 to 25 °C, for longer battery life)		
Humidity	< 95% without condensation		
Maximum altitude	3000 m		
IP protection	IP20		
Noise	< 73 dBA (to 1 meter)		
Certifications	CE (Standards: Low Voltage Directive IEC EN 62040-1; EMC Directive IEC EN 62040-2; classification IEC EN 62040-3)		
Interfaces			
Communication ports	1 RS232 port and 1 USB port		
Software	Tecnomanager UPS Management Software, compatibile con Windows, Linux, Unix, etc.		
SNMP Interface	Optional		
EPO (Emergency Power OFF)	Included		
Dry Contact Interface	Optional		

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ON LINE

EVO DSP PLUS MODULAR 480 VAC PF 1
350-700

Together on



Evo Dsp Plus Modular 480 Vac PF1
350 KW



Evo Dsp Plus Modular 480 Vac PF1
700 KW

POWER FACTOR 1



Display touch LCD 10”

REDUNDANT POWER SUPPLY IN STS
NO RISK OF SHUTDOWN

Main Specifications

- For Data Centers, Local Area Network (LAN), Industrial equipment, Electromedical equipment
- 10” touch LCD display
- Compatible with Generators
- Power Factor 1
- Frequency converter
- Shared Battery Modules
- High MTBF and low MTTR
- UPS Management Software compatible with Windows, Mac OS X, Unix, Linux, etc.

HIGH EFFICENCY 96,5%

Power Module



UPS 70KVA Module

	MODULO per UPS EVO DSP PLUS MODULAR HE
Code	**FGCEDPM70TT480**
Nominal power	70KVA
Active power	70KW
Dimension WxHxD	75x13x43,8cm (3U)
Input	
Nominal voltage	3 x 480Vac (3Ph without N)
Output	
Nominal voltage	3 x 480Vac (3Ph without N)
Battery	
Nominal voltage	+/- 240Vdc (12Vdc x 40 pz)
Maximum Charging Current	18A

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Battery module



Code	FBBEVDPM120/07	FBBEVDPM120/09	FBBEVDPM120/11
Battery number		10 pz	
Battery type	12V 7,2Ah	12V 9Ah	12V 11Ah
Dimensions WxHxD		10,7x15,5x73,5 cm	
Weight	22 Kg	26 Kg	31 Kg

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High Italian Quality

UPS Management Software

TECNOWARE®

RoHS COMPLIANT CE

EVO DSP PLUS MODULAR 480 VAC PF 1
350-700

Specifications

	UPS EVO DSP PLUS TT MODULAR 208VAC 350-700	
Module type	70KW (FGCEDPM70TT480)	
Cabinet code	FGCEDPM42A350K480	FGCEDPM42A700K480
Height	42U	
STS Power	350KW	700KW
Type of installable UPS Module	70KW	
Max. number of installable UPS Module	5	10
Max. capacity of installing 70KVA Module	70-350KW	70-700KW
Power factor	1	
Technology	On-Line Double Conversion transformerless (VFI-SS-111)	
Dimension (UPS) WxHxD	60x210x110 cm	135x200x110 cm (with Switch cabinet) 90x200x110 cm (without Switch cabinet)
Weight	516Kg	1.290Kg (with Switch cabinet) 984Kg (without Switch cabinet)
Input		
Number of phases	3Ph	
Nominal power	480 Vac	
Input voltage range	330V - 528V	
Nominal frequency	50/60 Hz (automatic selection)	
Input frequency range	40Hz - 70Hz	
Frequency Sync range	46Hz-54Hz or 56Hz-64Hz	
Input current harmonic distortion (THDi)	< 4% at 100% load	
Input power factor	≥ 0.99 at 100% load	
Output		
Number of phases	3Ph	
Nominal voltage	480 Vac	
Voltage Regulation (On-Line and Battery mode)	≤ 1%	
Inverter waveform	Sinewave	
Nominal frequency	50/60 Hz (selectable)	
Frequency stability	50 Hz ± 0.1% - 60 Hz ± 0.1%	
Voltage Harmonic Distortion (THD)	≤ 2% (100% linear load); ≤ 4% (100% distorting load)	
Crest factor	3:1 max	
Overload capability (On-line mode)	≤110% for 1 hour, 111~125% for 10 minutes, 126~150% per 1 minute, >150% for 200ms	
Overload capability (Battery mode)	≤110% for 1 hour, 111~125% for 10 minutes, 126~150% per 1 minute, >150% for 200ms	
Transfer time	0 ms (Line <--> Battery) 0 ms (Battery <--> Bypass)	
Efficiency	96,5% calculated in double conversion mode at 100% load according to standard 62040-3	
Bypass input		
Number of phases	3Ph	
Nominal power	480 Vac	
Maximum voltage threshold	+10% / +15% / +20%	
Minimum voltage threshold	-10% / -20% / -30%	
Nominal frequency	50/60 Hz (automatic selection)	
Frequency Sync range	± 1Hz, ± 2Hz, ± 4Hz (selectable)	
Overload capability	≤110% for 1 hour, 111~125% for 10 minutes, 126~150% for 1 minute, >150% for 200ms	
Transfer time	≤ 20ms (Bypass <--> Inverter)	
Batteries		
Type	Lead acid, sealed, maintenance free	
Elements number	40 elements	
Nominal battery voltage	± 240 Vdc	
Charging time	6-8 hours (tipical)	
Maximum charging current	18A each 70KVA module	
Environmental specification		
Working temperature	From 0 to 55°C (recommended from 20 to 25 °C, for longer battery life)	
Humidity	< 95% without condensation	
Maximum altitude	3000 m	
IP protection	IP20	
Noise	< 79 dBA (to 1 meter)	
Certifications	CE (Standards: Low Voltage Directive IEC EN 62040-1; EMC Directive IEC EN 62040-2; classification IEC EN 62040-3)	
Interfaces		
Communication ports	1 RS232 port and 1 USB port	
Software	Tecnomanager UPS Management Software, compatibile con Windows, Linux, Unix, etc.	
SNMP Interface	Optional	
EPO (Emergency Power OFF)	Included	
Dry Contact Interface	Optional	
Parallel mode	Optional (2 UPS)	

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Battery Cabinet

Code	FBBEVDPM30U480A	FBBEVDPM42U480A	FBBEVDPM42U480B
Height	30U	42U	42U
Max. number of installable Battery Module	28 (to order separately)	40 (to order separately)	-
Battery type and number	-	-	40 x 12V 100Ah (to order separately)
Dimensions WxHxD	60x147,5x110 cm	60x201x110 cm	64,7x201x110 cm
Weight	135 Kg (without battery module)	200 Kg (without battery module)	221 Kg (without battery)

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ON LINE

UPS EVO DSP PLUS TT PF 1

80-100-120-180-200-240-300

Together on



Ups Evo DSP Plus TT
80.0-100.0-120.0 PF 1



Ups Evo DSP Plus TT
180.0-200.0 PF 1



Ups Evo DSP Plus TT
240.0-300.0 PF 1

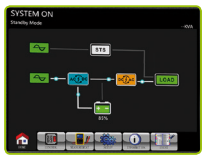
EASY SWAP INTERNAL MODULE WITH REDUNDANT FUNCTION (not hot swappable)

(UPS reduces the power if one module fails)

POWER FACTOR 1

POWER WALK-IN FUNCTION

HIGH GENERATOR COMPATIBILITY



DISPLAY **LCD** colour touch

Main Specifications

- For Local Area Network (LAN), Data Centers, Industrial equipment, Electromedical equipment
- Touch color LCD display
- Power factor 1
- Rectifier by IGBT
- Easy Swap internal modules with redundant function (not hot swappable - UPS reduces the power if one module fails)
- Battery Recharge System managed by Microprocessor
- High compatibility with the generator: due to the Power Walk-in function, the rectifier starts up progressively, reducing the input current so no need oversize the generator.
- Modular internal structure for easy and quick maintenance
- Static and Manual Bypass
- Expandable up to 2 units in parallel
- UPS Management Software TecnoManager compatible with Windows, Mac OS X, Unix, Linux, etc.

HIGH EFFICENCY 96%

Specifications

UPS Model	EVO DSP PLUS TT 80.0 PF 1	EVO DSP PLUS TT 100.0 PF 1	EVO DSP PLUS TT 120.0 PF 1	EVO DSP PLUS TT 180.0 PF 1	EVO DSP PLUS TT 200.0 PF 1	EVO DSP PLUS TT 240.0 PF 1	EVO DSP PLUS TT 300.0 PF 1
Code	FGCEDP80TT/00	FGCEDP100TT/00	FGCEDP120TT/00	FGCEDP180TT/00	FGCEDP200TT/00	FGCEDP240TT/00	FGCEDP300TT/00
Nominal Power	80 KVA	100 KVA	120 KVA	180 KVA	200 KVA	240 KVA	300 KVA
Active Power	80 KW	100 KW	120 KW	180 KW	200 KW	240 KW	300 KW
Power Factor	1						
Technology	On-Line Double Conversion transformerless (VFI-SS-111)						
Cooling	Fan cooling						
Dimension (UPS) WxHxD	43x120x100 cm			60x120x100cm		60x147,5x110cm	
Weight	160 Kg	169 Kg	185 Kg	249 Kg	265 Kg	360Kg	396Kg
Input							
Number of phases	3Ph+N						
Nominal voltage	380Vac/400Vac/415Vac						
Input voltage range (Ph-N)	176Vac-276Vac to 100% load, 110Vac-300Vac to 50% load						
Nominal frequency	50/60 Hz						
Input frequency range On-Line mode	40Hz ~70Hz						
Input current harmonic distortion (THDi)	≤4%						
Input power factor	0,99						
Output							
Number of phases	3Ph+N						
Nominal voltage	380Vac/400Vac/415Vac						
Voltage Regulation (On-Line and Battery mode)	±1%						
Voltage THD at rated linear load	<2% (linear load) - <4% (non-linear load)						
Crest factor	3:1						
Frequency	50/60 Hz						
Frequency stability	±0,1 Hz						
Inverter waveform	Sinewave						
Overload capability	≦ 110% for hour, 111% ~ 125% for 10 minutes,126%~150% for 1 minute, >150% for 200 ms						
Efficiency	96%, calculated in double conversion mode at 100% load according to standard 62040-3						
Transfer time	0 ms (On-Line)						
Battery (fitted inside the external Battery Box)							
Type	Lead acid, sealed, maintenance free						
External Battery Box	See page Battery Box						
Environmental specification							
Working temperature	From 0 to 55 °C (recommended from 20 to 25 °C)						
Humidity	< 95% without condensation						
Maximum altitude	3000 m						
IP protection	IP20						
Certifications	CE (Standards: Low Voltage Directive IEC EN 62040-1; EMC Directive IEC EN 62040-2; classification IEC EN 62040-3)						

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Accessories

Model	Code
Parallel Kit for Evo Dsp Plus TT 80-300 KVA	FGCKITPAREVDP10
Internal SNMP interface	FGCNETAG7
Internal SNMP interface	FGCNETAG11
MODBUS RS485 interface	FGCMODBUS
Dry Contact DB9 interface	FGCEVODSDRY3
Dry Contact 9 PIN interface	FGCEVODSDRY4
Three-phase isolating transformer 80 KVA star/star	FGCIT80KSST
Three-phase isolating transformer 80 KVA delta/star	FGCIT80KTST
Three-phase isolating transformer 100 KVA star/star	FGCIT100KSST
Three-phase isolating transformer 100 KVA delta/star	FGCIT100KTST

Model	Code
Three-phase isolating transformer 120 KVA star/star	FGCIT120KSST
Three-phase isolating transformer 120 KVA delta/star	FGCIT120KTST
Three-phase isolating transformer 180 KVA star/star	FGCIT180KSST
Three-phase isolating transformer 180 KVA delta/star	FGCIT180KTST
Three-phase isolating transformer 200 KVA star/star	FGCIT200KSST
Three-phase isolating transformer 200 KVA delta/star	FGCIT200KTST
Three-phase isolating transformer 240 KVA star/star	FGCIT240KSST
Three-phase isolating transformer 240 KVA delta/star	FGCIT240KTST
Three-phase isolating transformer 300 KVA star/star	FGCIT300KSST
Three-phase isolating transformer 300 KVA delta/star	FGCIT300KTST

High Italian Quality

TECNOManager UPS Management Software

TECNOWARE

RoHS COMPLIANT CE

UPS EVO DSP PLUS TT PF 1
BATTERY BOX



Main Specifications

- Front door for access to battery compartments
- Removable side panels
- Isolator fuse protecting the battery circuit
- Easy maintenance

Specifications

Model	BATTERY BOX FOR EVO DSP PLUS TT 80.0-100.0-120.0-180.0-200.0-240.0-300.0 PF 1					
Code	FBBEP384B/00	FBBEP384B/40	FBBEP384C/00	FBBEP384C/60	FBBEP384C/65	FBBEP384C/80
Dimension (Box) WxHxD	61 x 140 x 68 cm		81 x 140 x 88 cm			
Dimension (with packing) WxHxD	74 x 162,5 x 84,5 cm		94 x 162,5 x 104,5 cm			
Weight	150 Kg	770 kg	205 kg	800 kg	820 kg	950 kg
Equipped with	Battery cable to connect UPS to Battery Box					
Battery						
Type	Lead acid, sealed, maintenance free					
Protection						
Battery circuit	Disconnector					
Environmental specification						
Working temperature	From 0 to 55 °C (recommended from 20 to 25 °C)					
Humidity	< 95% without condensation					
Maximum altitude	3000 m					
IP protection	IP20					
Certifications	CE					

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Specifications

Model	BBATTERY BOX FOR EVO DSP PLUS TT 80.0-100.0-120.0-180.0-200.0-240.0-300.0 PF 1					
Code	FBBEP384D/00	FBBEP384D/100	FBBEP384D/120	FBBEP384E/00	FBBEP384E/140	FBBEP384E/200
Dimension (Box) WxHxD	81 x 190 x 98 cm			121 x 190 x 98 cm		
Dimension (with packing) WxHxD	94 x 212,5 x 114,5 cm			134x 212,5 x 114,5 cm		
Weight	285 Kg	1.250 kg	1.260 kg	359 kg	1.670 kg	2.240 kg
Equipped with	Battery cable to connect UPS to Battery Box					
Battery						
Type	Lead acid, sealed, maintenance free					
Protection						
Battery circuit	Disconnector					
Environmental specification						
Working temperature	From 0 to 55 °C (recommended from 20 to 25 °C)					
Humidity	< 95% without condensation					
Maximum altitude	3000 m					
IP protection	IP20					
Certifications	CE					

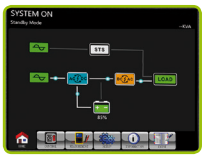
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ON LINE

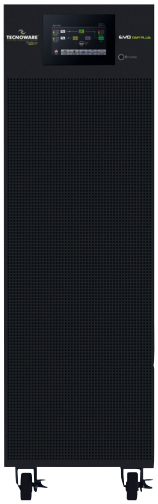
UPS EVO DSP PLUS TT PF 1
40-60

Together on

POWER FACTOR 1



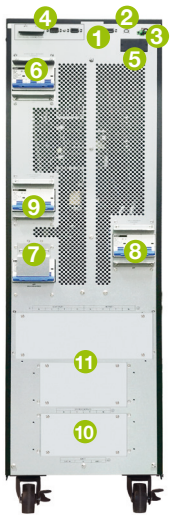
DISPLAY **LCD**
color touch



Ups Evo DSP Plus
40-60 TT PF 1



Ups Evo DSP Plus 40 TT PF 1



Ups Evo DSP Plus 60 TT PF 1

1 RS232 port 2 USB port 3 EPO connector 4 Interface for parallel connection 5 Slot for SNMP interface, Dry Contact or MODBUS 6 Input bypass switch
7 Manual bypass switch for maintenance 8 Output voltage switch 9 Input switch 10 Connector for external Battery Box 11 Input/output terminal box

Main Specifications

- Local Area Networks (LAN), Data Centers, Industrial equipment, Electromedical equipment
- Power factor 1
- Double input mains/Bypass
- Rectifier realized by IGBT technology
- Compatible with Generators
- Battery charging system controlled by microprocessor
- Static and manual bypass
- Expandable up to 2 units in parallel with shared Box Battery
- UPS Management Software TecnoManager compatible with Windows, Mac OS X, Unix, Linux, etc.

HIGH EFFICENCY 96%

Specifications

UPS Model	EVO DSP PLUS TT 40.0 PF 1				EVO DSP PLUS TT 60.0 PF 1
Code	FGCEDP40TT2/00	FGCEDP40TT2/2C	FGCEDP40TT2/2D	FGCEDP40TT2/2E	FGCEDP60TT/00
Nominal power	40 KVA				60 KVA
Active power	40 KW				60 KW
Power factor	1				
Technology	On-Line Double Conversion transformerless (VFI-SS-111)				
Cooling	Fan cooling				
Dimension (UPS) WxHxD	30x100x81,5cm				
Dimension (with packing) WxHxD	43x123,5x95,3cm				
Weight	95 Kg	236 Kg	268 Kg	280 Kg	100 Kg
Input					
Number of phases	3Ph+N				
Nominal voltage	360Vac/380Vac/400Vac/415Vac				
Nominal voltage (Ph-N)	208Vac/220Vac/230Vac/240Vac				
Input voltage range (Ph-N)	176Vac-276Vac to 100% load, 110Vac-300Vac to 50% load				
Nominal frequency	50/60 Hz				
Input frequency range On-Line mode	±7%				
Input current harmonic distortion THDi	<9% to 50% load, <6% to 100% load				
Input power factor	0,99				
Output					
Number of phases	3Ph+N				
Nominal voltage	360Vac/380Vac/400Vac/415Vac (Ph-N: 208Vac/220Vac/230Vac/240Vac)				
Voltage Regulation (On-Line and Battery mode)	±1%				
Voltage THD at rated linear load	<2% (linear load) - <5% (distorting load)				
Crest factor	3:1				
Frequency	50/60 Hz				
Frequency stability	±0,1 Hz				
Inverter waveform	Sinewave				
Overload capability (On-line mode)	100-110% for 60 minutes, 100-125% for 10 minutes,125-150% for 1 minute, >150 immediate				
Overload capability (Battery mode)	100-110% for 60 minutes, 100-125% for 10 minutes,125-150% for 1 minute, >150 immediate				
Efficiency	96%, calculated in double conversion mode at 100% load according to standard 62040-3				
Transfer time	0 ms (On-Line)				
Battery					
Type	Lead acid, sealed, maintenance free				
Installed inside	-	64 elements (2 set 16+16)			-
Extended autonomy	External Battery Box (opt)	-			External Battery Box (opt)
Environmental specification					
Working temperature	From 0 to 55 °C (recommended from 20 to 25 °C)				
Humidity	< 95% without condensation				
Maximum altitude	3000 m				
IP protection	IP20				
Certifications	CE (Standards: Low Voltage Directive IEC EN 62040-1; EMC Directive IEC EN 62040-2; classification IEC EN 62040-3)				

Accessories

Model	Code
Parallel Kit	FGCKITPARCA1
SNMP Internal Interface	FGCNETAG7
SNMP Internal Interface	FGCNETAG11
Dry Contact DB9 Interface	FGCEVODSDRY3
Dry Contact 9 PIN Interface	FGCEVODSDRY4

Model	Code
ModBus RS485 Interface	FGCMODBUS
Three-phase isolation Trans. 40 KVA star/star	FGCIT40KSST
Three-phase isolation Trans. 40 KVA delta/star	FGCIT40KTST
Three-phase isolation Trans. 60 KVA star/star	FGCIT60KSST
Three-phase isolation Trans. 60 KVA delta/star	FGCIT60KTST

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High Italian Quality

TECNOManager UPS Management Software

TECNOWARE®

RoHS COMPLIANT CE

UPS EVO DSP PLUS TT PF 1
BATTERY BOX

Together on



Main Specifications

- Front door for access to battery compartments
- Removable side panels
- Isolator fuse protecting the battery circuit
- Easy maintenance

Specifications

Model	BATTERY BOX FOR EVO DSP PLUS TT 40.0-60.0 PF 1					
Code	FBBEP384B/00	FBBEP384B/40	FBBEP384C/00	FBBEP384C/60	FBBEP384C/65	FBBEP384C/80
Dimension (Box) WxHxD	61 x 140 x 68 cm		81 x 140 x 88 cm			
Dimension (with packing) WxHxD	74 x 162,5 x 84,5 cm		94 x 162,5 x 104,5 cm			
Weight	150 Kg	770 kg	205 kg	800 kg	820 kg	950 kg
Equipped with	Battery cable to connect UPS to Battery Box					
Battery						
Type	Lead acid, sealed, maintenance free					
Protection						
Battery circuit	Disconnector					
Environmental specification						
Working temperature	From 0 to 55 °C (recommended from 20 to 25 °C)					
Humidity	< 95% without condensation					
Maximum altitude	3000 m					
IP protection	IP20					
Certifications	CE					

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Specifications

Model	BATTERY BOX FOR EVO DSP PLUS TT 40.0-60.0 PF 1					
Code	FBBEP384D/00	FBBEP384D/100	FBBEP384D/120	FBBEP384E/00	FBBEP384E/140	FBBEP384E/200
Dimension (Box) WxHxD	81 x 190 x 98 cm			121 x 190 x 98 cm		
Dimension (with packing) WxHxD	94 x 212,5 x 114,5 cm			134x 212,5 x 114,5 cm		
Weight	285 Kg	1.250 kg	1.260 kg	359 kg	1.670 kg	2.240 kg
Equipped with	Battery cable to connect UPS to Battery Box					
Battery						
Type	Lead acid, sealed, maintenance free					
Protection						
Battery circuit	Disconnector					
Environmental specification						
Working temperature	From 0 to 55 °C (recommended from 20 to 25 °C)					
Humidity	< 95% without condensation					
Maximum altitude	3000 m					
IP protection	IP20					
Certifications	CE					

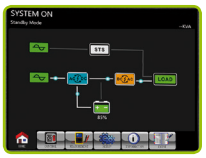
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UPS EVO DSP PLUS TT PF 1

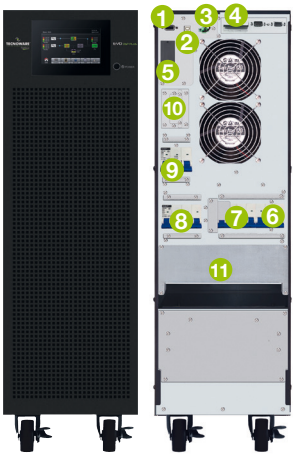
10-20-30

Together on

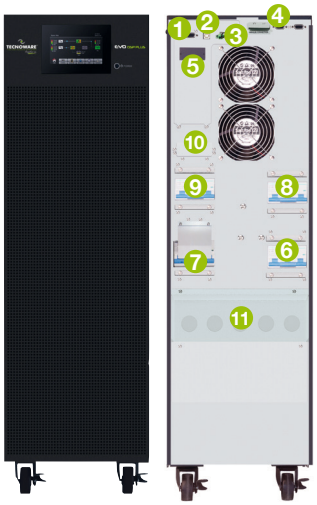
POWER FACTOR 1



DISPLAY **LCD**
color touch



Ups Evo DSP Plus 10-20 TT PF 1



Ups Evo DSP Plus 30 TT PF 1

1 RS232 port 2 USB port 3 EPO connector 4 Interface for parallel connection 5 Slot for SNMP interface, Dry Contact or MODBUS 6 Input bypass switch
7 Manual bypass switch for maintenance 8 Output voltage switch 9 Input voltage switch 10 Connector for external Battery Box 11 Input/output terminal box

Main Specifications

- For Local Area Network (LAN), Data Centers, Industrial equipment, Electromedical equipment
- Power factor 1
- Double input mains/bypass
- Rectifier realized by IGBT technology
- Compatible with Generators
- Battery recharge system managed by microprocessor
- Static and manual bypass
- Expandable up to 2 units in parallel with shared Box Battery
- UPS Management Software TecnoManager compatible with Windows, Mac OS X, Unix, Linux, etc.

HIGH EFFICENCY 96%

Specifications

UPS Model	EVO DSP PLUS TT 10.0-20.0-30.0 PF 1											
Code	FGCEDP10TT/00	FGCEDP10TT/C FGCEDP10TT/2C	FGCEDP10TT/D FGCEDP10TT/2D	FGCEDP10TT/E FGCEDP10TT/2E	FGCEDP20TT/00	FGCEDP20TT/C	FGCEDP20TT/D	FGCEDP20TT/E	FGCEDP30TT2/00	FGCEDP30TT2/2C	FGCEDP30TT2/2D	FGCEDP30TT2/2E
Nominal power	10 KVA				20 KVA				30 KVA			
Active power	10 KW				20 KW				30 KW			
Power Factor	1											
Technology	On-Line Double Conversion transformerless (VFI-SS-111)											
Cooling	Fan cooling											
Dimension (UPS) WxHxD	25x82,6x63 cm								30x100x81,5 cm			
Dimension (with packing) WxHxD	38,5x102,5x73,5 cm								38,5x120,5x92 cm			
Weight	70 Kg	116 Kg 160 Kg	124 Kg 176 Kg	128 Kg 184 Kg	80 Kg	150 Kg	166 Kg	173 Kg	95 Kg	235 Kg	268 Kg	280 Kg
Input												
Number of phases	3Ph+N											
Nominal voltage	360Vac/380Vac/400Vac/415Vac											
Nominal voltage (Ph-N))	208Vac/220Vac/230Vac/240Vac											
Input voltage range (Ph-N)	176Vac-276Vac to 100% load, 110Vac-300Vac to 50% load											
Nominal frequency	50/60 Hz											
Input frequency range On-Line mode	46-54 Hz or 56-64 Hz											
Input current harmonic distortion (THDi)	≤4%											
Input power factor	0,99											
Output												
Number of phases	3Ph+N											
Nominal voltage	360Vac/380Vac/400Vac/415Vac (Ph-N: 208Vac/220Vac/230Vac/240Vac)											
Voltage Regulation (On-Line and Battery mode)	±1%											
Voltage THD at rated linear load	<2% (linear load) - <5% (distorting load)											
Crest factor	3:1											
Frequency	50/60 Hz											
Frequency stability	±0,1 Hz											
Inverter waveform	Sinewave											
Overload capability (On-line mode)	100-110% for 60 minutes, 100-125% for 10 minutes,125-150% for 1 minute, >150 immediate											
Overload capability (Battery mode)	100-110% for 60 minutes, 100-125% for 10 minutes,125-150% for 1 minute, >150 immediate											
Efficiency	96%, calculated in double conversion mode at 100% load to 100% load according to standard 62040-3											
Transfer time	0 ms (On-Line)											
Battery												
Type	Lead acid, sealed, maintenance free											
Installed inside	-	20 elements (10+10) 40 elements 2 x (10+10)			-	32 elements (16+16)			-	64 elements (2 set 16+16)		
Extended autonomy	External Battery Box (opt)	-			External Battery Box (opt)	-			External Battery Box (opt)	-		
Environmental specification												
Working temperature	From 0 to 55 °C (recommended from 20 to 25 °C, for longer battery life)											
Humidity	< 95% without condensation											
Maximum altitude	3000 m											
IP protection	IP20											
Certifications	CE (Standards: Low Voltage Directive IEC EN 62040-1; EMC Directive IEC EN 62040-2; classification IEC EN 62040-3)											

Accessories

Model	Code
Parallel cables kit	FGCKITPARCA1
SNMP Internal Interface	FGCNETAG7
SNMP Internal Interface	FGCNETAG11
ModBus RS485 interface	FGCMODBUS

Model	Code
Dry Contact DB9 interface	FGCEVODSDRY3
Dry Contact 9 PIN interface	FGCEVODSDRY4
Three-phase isolating transf. 10 KVA star/star	FGCIT10KSST
Three-phase isolating transf. 10 KVA delta/star	FGCIT10KTST

Model	Code
Three-phase isolating transf. 20 KVA star/star	FGCIT20KSST
Three-phase isolating transf. 20 KVA delta/star	FGCIT20KTST
Three-phase isolating transf. 30 KVA delta/star	FGCIT30KSST
Three-phase isolating transf. 30 KVA delta/star	FGCIT30KTST

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High Italian Quality

TECNOManager UPS Management Software

TECNOWARE

RoHS COMPLIANT CE

UPS EVO DSP PLUS TT PF 1
BATTERY BOX

Together on



Main Specifications

- Front door for access to battery compartments
- Removable side panels
- Isolator fuse protecting the battery circuit
- Easy maintenance

Specifications

Model	BATTERY BOX FOR EVO DSP PLUS TT 10.0 PF 1													
Code	FBBEP240A2/00	FBBEP240A2/18	FBBEP240A2/24	FBBEP240B2/00	FBBEP240B2/40	FBBEP240B2/60	FBBEP240B2/80	FBBEP240D2/00	FBBEP240D2/65	FBBEP240D2/100	FBBEP240D2/120	FBBEP240C2/00	FBBEP240C2/150	
Dimension (Box) LxHxP	60 x 110 x 60 cm			61 x 140 x 68 cm				61 x 140 x 88 cm				81 x 190 x 98 cm		
Dimension (with packing) WxHxD	74 x 162,5 x 104,5 cm			94 x 212,5 x 114,5 cm				94 x 212,5 x 114,5 cm				94 x 212,5 x 114,5 cm		
Weight	80 Kg	190 kg	240 kg	175kg	420 kg	505 kg	625 Kg	175 kg	560 kg	755kg	785 Kg	285 Kg	1.155 Kg	
Equipped with	Battery cable to connect UPS to Battery Box													
Battery														
Type	Lead acid, sealed, maintenance free													
Protection														
Battery circuit	Disconnector													
Environmental specification														
Working temperature	From 0 to 55 °C (recommended from 20 to 25 °C)													
Humidity	< 95% without condensation													
Maximum altitude	3000 m													
IP protection	IP20													
Certifications	CE													

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Main Specifications

- Front door for access to battery compartments
- Removable side panels
- Isolator fuse protecting the battery circuit
- Easy maintenance

Specifications

Model	BATTERY BOX FOR EVO DSP PLUS TT 20-30 PF 1													
Code	FBBEP384B/00	FBBEP384B/24	FBBEP384B/40	FBBEP384C/00	FBBEP384C/60	FBBEP384C/65	FBBEP384C/80	FBBEP384D/00	FBBEP384D/100	FBBEP384D/120	FBBEP384E/00	FBBEP384E/140	FBBEP384E/200	
Dimension (Box) LxHxP	61 x 140 x 88 cm			81 x 140 x 88 cm				81 x 190 x 98 cm			121 x 190 x 98 cm			
Dimension (with packing) WxHxD	74 x 162,5 x 84,5 cm 380 Kg			94 x 162,5 x 104,5 cm				94 x 212,5 x 114,5 cm			134x 212,5 x 114,5 cm			
Weight	150 Kg	380 kg	770 kg	205 kg	700 kg	820 kg	950 Kg	285 kg	1.250 kg	1.260 kg	350 Kg	1.670 kg	2.240 kg	
Equipped with	Battery cable to connect UPS to Battery Box													
Battery														
Type	Lead acid, sealed, maintenance free													
Protection														
Battery circuit	Disconnector													
Environmental specification														
Working temperature	From 0 to 55 °C (recommended from 20 to 25 °C)													
Humidity	< 95% without condensation													
Maximum altitude	3000 m													
IP protection	IP20													
Certifications	CE													

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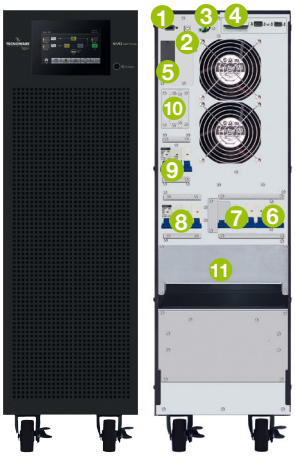
RoHS COMPLIANT CE

ON LINE

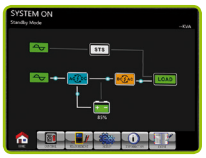
UPS EVO DSP PLUS TM PF 1
10-20

Together on

POWER FACTOR 1



Ups Evo DSP Plus 10-20 TM PF 1



DISPLAY **LCD**
color touch

1 RS232 port 2 USB port 3 EPO connector 4 Interface for parallel connection 5 Slot for SNMP interface, Dry Contact or MODBUS 6 Input bypass switch
7 Manual bypass switch for maintenance 8 Output voltage switch 9 Input voltage switch 10 Connector for external Battery Box 11 Input/output terminal box

Main Specifications

- For Local Area Network (LAN), Data Centers, Industrial equipment, Electromedical equipment
- Power factor 1
- Double input mains/bypass
- Rectifier realized by IGBT technology
- Compatible with Generators
- Battery recharge system managed by microprocessor
- Static and manual bypass
- Expandable up to 3 units in parallel with shared Box Battery
- UPS Management Software TecnoManager compatible with Windows, Mac OS X, Unix, Linux, etc.

HIGH EFFICENCY 96%

Specifications

UPS Model	EVO DSP PLUS TM 10.0-20.0 PF 1										
Code	FGCEDP10TM/00	FGCEDP10TM/C	FGCEDP10TM/D	FGCEDP10TM/E	FGCEDP10TM/2C	FGCEDP10TM/2D	FGCEDP10TM/2E	FGCEDP20TM/00	FGCEDP20TM/C	FGCEDP20TM/D	FGCEDP20TM/E
Nominal power	10 KVA							20 KVA			
Active power	10 KW							20 KW			
Power Factor	1										
Technology	On-Line Double Conversion transformerless (VFI-SS-111)										
Cooling	Fan cooling										
Dimension (UPS) WxHxD	25x82,6x63 cm										
Dimension (with packing) WxHxD	38,5x102,5x73,5 cm										
Weight	70 Kg	116 Kg	124 Kg	128 Kg	160 Kg	172 Kg	184 Kg	80 Kg	150 Kg	166 Kg	173 Kg
Input											
Number of phases	3Ph+N										
Nominal voltage	360Vac/380Vac/400Vac/415Vac										
Nominal voltage (Ph-N)	208Vac/220Vac/230Vac/240Vac										
Input voltage range (Ph-N)	176Vac-276Vac to 100% load, 110Vac-300Vac to 50% load										
Nominal frequency	50/60 Hz										
Input frequency range On-Line mode	46-54 Hz or 56-64 Hz										
Input current harmonic distortion (THDi)	≤4%										
Input power factor	0,99										
Output											
Number of phases	1Ph+N										
Nominal voltage	208Vac/220Vac/230Vac/240Vac										
Voltage Regulation (On-Line and Battery mode)	±1%										
Voltage THD at rated linear load	<2% (linear load) - <5% (distorting load)										
Crest factor	3:1										
Frequency	50/60 Hz										
Frequency stability	±0,1 Hz										
Inverter waveform	Sinewave										
Overload capability (On-line mode))	100-110% for 60 minutes, 100-125% for 10 minutes,125-150% for 1 minute, >150 immediate										
Overload capability (Battery mode)	100-110% for 60 minutes, 100-125% for 10 minutes,125-150% for 1 minute, >150 immediate										
Efficiency	96%, calculated in double conversion mode at 100% load to 100% load according to standard 62040-3										
Transfer time	0 ms (On-Line)										
Battery											
Type	Lead acid, sealed, maintenance free										
Installed inside	-	20 elements (10+10)			40 elements 2 x (10+10)			-	32 elements (16+16)		
Extended autonomy	External Battery Box (opt)	-						External Battery Box (opt)	-		
Environmental specification											
Working temperature	From 0 to 55 °C (recommended from 20 to 25 °C, for longer battery life)										
Humidity	< 95% without condensation										
Maximum altitude	3000 m										
IP protection	IP20										
Certifications	CE (Standards: Low Voltage Directive IEC EN 62040-1; EMC Directive IEC EN 62040-2; classification IEC EN 62040-3)										

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Accessories

Model	Code
Parallel cables kit	FGCKITPARCA1
SNMP Internal Interface	FGCNETAG7
SNMP Internal Interface	FGCNETAG11

Model	Code
ModBus RS485 interface	FGCMODBUS
Dry Contact DB9 interface	FGCEVODSDRY3
Dry Contact 9 PIN interface	FGCEVODSDRY4

High Italian Quality

TECNOManager UPS Management Software

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RoHS COMPLIANT CE

UPS EVO DSP PLUS TM PF 1
BATTERY BOX

Together on



Main Specifications

- Front door for access to battery compartments
- Removable side panels
- Isolator fuse protecting the battery circuit
- Easy maintenance

Specifications

Model	BATTERY BOX FOR EVO DSP PLUS TM 10.0 PF 1													
Code	FBBEP240A2/00	FBBEP240A2/18	FBBEP240A2/24	FBBEP240B2/00	FBBEP240B2/40	FBBEP240B2/60	FBBEP240B2/80	FBBEP240D2/00	FBBEP240D2/65	FBBEP240D2/100	FBBEP240D2/120	FBBEP240C2/00	FBBEP240C2/150	
Dimension (Box) LxHxP	60 x 110 x 60 cm			61 x 140 x 68 cm				61 x 140 x 88 cm				81 x 190 x 98 cm		
Dimension (with packing) WxHxD	74 x 162,5 x 104,5 cm			94 x 212,5 x 114,5 cm				94 x 212,5 x 114,5 cm				94 x 212,5 x 114,5 cm		
Weight	80 Kg	190 kg	240 kg	175kg	420 kg	505 kg	625 Kg	175 kg	560 kg	755 kg	785 Kg	285 Kg	1.155 Kg	
Equipped with	Battery cable to connect UPS to Battery Box													
Battery														
Type	Lead acid, sealed, maintenance free													
Protection														
Battery circuit	Disconnector													
Environmental specification														
Working temperature	From 0 to 55 °C (recommended from 20 to 25 °C)													
Humidity	< 95% without condensation													
Maximum altitude	3000 m													
IP protection	IP20													
Certifications	CE													

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Main Specifications

- Front door for access to battery compartments
- Removable side panels
- Isolator fuse protecting the battery circuit
- Easy maintenance

Specifications

Model	BATTERY BOX PER EVO DSP PLUS TM 20 PF 1													
Code	FBBEP384B/00	FBBEP384B/24	FBBEP384B/40	FBBEP384C/00	FBBEP384C/60	FBBEP384C/65	FBBEP384C/80	FBBEP384D/00	FBBEP384D/100	FBBEP384D/120	FBBEP384E/00	FBBEP384E/140	FBBEP384E/200	
Dimension (Box) LxHxP	61 x 140 x 88 cm			81 x 140 x 88 cm				81 x 190 x 98 cm			121 x 190 x 98 cm			
Dimension (with packing) WxHxD	74 x 162,5 x 84,5 cm 380 Kg			94 x 162,5 x 104,5 cm				94 x 212,5 x 114,5 cm			134x 212,5 x 114,5 cm			
Weight	150 Kg	380 kg	770 kg	205 kg	700 kg	820 kg	950 Kg	285 kg	1.250 kg	1.260 kg	350 Kg	1.670 kg	2.240 kg	
Equipped with	Battery cable to connect UPS to Battery Box													
Battery														
Type	Lead acid, sealed, maintenance free													
Protection														
Battery circuit	Disconnector													
Environmental specification														
Working temperature	From 0 to 55 °C (recommended from 20 to 25 °C)													
Humidity	< 95% without condensation													
Maximum altitude	3000 m													
IP protection	IP20													
Certifications	CE													

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NEW

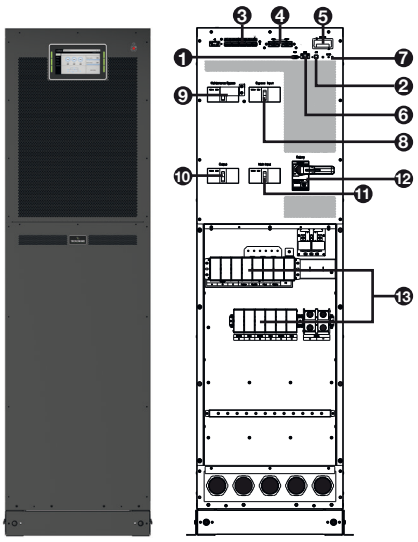
ON LINE

UPS EVO DSP PRO TT PF 1

80-100

Together on

POWER FACTOR 1



Ups Evo DSP Pro 80-100 TT PF 1



Hot Swap Battery System



DISPLAY **LCD**
color touch

1 RS232 port 2 USB port 3 Dry contact and EPO connector 4 Interface for parallel connection 5 Slot for SNMP interface, Dry Contact or MODBUS 6 RS485 port 7 Cold Start 8 Input bypass switch 9 Manual bypass switch for maintenance 10 Output voltage switch 11 Input voltage switch 12 Battery voltage switch 13 Input/output, External Battery Box, Terminal Block

Main Specifications

- Local Area Networks (LAN), Data Centers, Industrial equipment, Electromedical equipment
- Power factor 1
- Double input mains/Bypass
- Rectifier realized by IGBT technology
- Compatible with Generators
- Battery charging system controlled by microprocessor
- Hot Swap Battery
- Static and manual bypass
- Expandable up to 2 units in parallel
- UPS Management Software compatible with Windows, Mac OS X, Unix, Linux, etc.

HIGH EFFICENCY 97%

Specifications

UPS Model	EVO DSP PRO TT 80.0 PF 1				EVO DSP PRO TT 100.0 PF 1			
Code	FGCEDP80TTHS/00	FGCEDP80TTHS/5C	FGCEDP80TTHS/5D	FGCEDP80TTHS/5E	FGCEDP100TTHS/00	FGCEDP100TTHS/5C	FGCEDP100TTHS/5D	FGCEDP100TTHS/5E
Nominal power	80 KVA				100 KVA			
Active power	80 KW				100 KW			
Power factor	1							
Technology	On-Line Double Conversion transformerless (VFI-SS-111)							
Cooling	Fan cooling							
Dimension (UPS) WxHxD	50x175x95cm							
Dimension (with packing) WxHxD	63x195x105cm							
Weight	108 Kg	488 Kg	588 Kg	648 Kg	113 Kg	493 Kg	593 Kg	653 Kg
Input								
Number of phases	3Ph+N							
Nominal voltage	380Vac/400Vac/415Vac							
Nominal voltage (Ph-N)	220Vac/230Vac/240Vac							
Input voltage range (Ph-N)	176Vac-276Vac to 100% load, 130Vac-300Vac to 50% load							
Nominal frequency	50/60 Hz							
Input frequency range On-Line mode	40-70 Hz							
Input current harmonic distortion THDi	≤2%							
Input power factor	0,99							
Output								
Number of phases	3Ph+N							
Nominal voltage	380Vac/400Vac/415Vac (Ph-N: 220Vac/230Vac/240Vac)							
Voltage Regulation (On-Line and Battery mode)	±1%							
Voltage THD at rated linear load	<1% (linear load) - <3% (distorting load)							
Crest factor	3:1							
Frequency	50/60 Hz							
Frequency stability	±0,1 Hz							
Inverter waveform	Sinewave							
Overload capability (On-line mode)	100-110% for 60 minutes, 110-125% for 10 minutes,125-150% for 1 minute, >150 200ms							
Overload capability (Battery mode)	100-110% for 60 minutes, 110-125% for 10 minutes,125-150% for 1 minute, >150 200ms							
Efficiency	97%, calculated in double conversion mode at 100% load according to standard 62040-3							
Transfer time	0 ms (On-Line)							
Battery								
Type	Lead acid, sealed, maintenance free							
Battery strip type	Half metal standard - Full metal optional							
Installed inside	20 empty battery strip	200 elements (20 battery strip)			20 empty battery strip	200 elements (20 battery strip)		
Battery charge time (typical)	6-8 hours							
Battery charger	30A max (selectable)							
Environmental specification								
Working temperature	From 0 to 55 °C (recommended from 20 to 25 °C)							
Humidity	< 95% without condensation							
Maximum altitude	3000 m							
IP protection	IP20							
Certifications	CE (Standards: Low Voltage Directive IEC EN 62040-1; EMC Directive IEC EN 62040-2; classification IEC EN 62040-3)							

Accessories

Model	Code
Dry Contact DB9 Interface	FGCEDPDRY5
Dry Contact 9 PIN Interface	FGCEDPDRY6

Model	Code
SNMP Internal Interface	FGCNETAG13
ModBus RS485 Interface	FGCEDPRS485

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High Italian Quality

UPS Management Software

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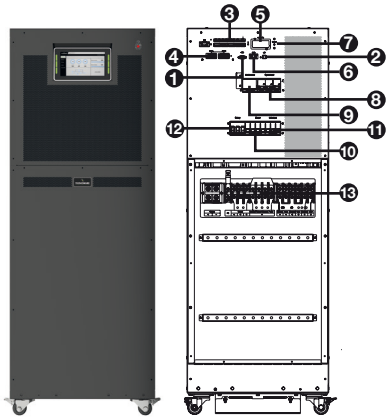
ON LINE

UPS EVO DSP PRO TT PF 1
40-60

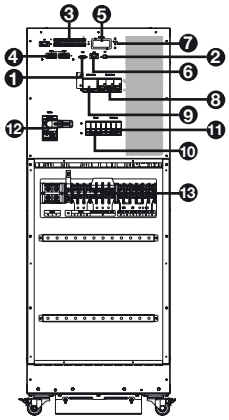
NEW

Together on

POWER FACTOR 1



Ups Evo DSP Pro 40 TT PF 1



Ups Evo DSP Pro 60 TT PF 1



Hot Swap Battery System



DISPLAY **LCD** color touch

1 RS232 port 2 USB port 3 Dry contact and EPO connector 4 Interface for parallel connection 5 Slot for SNMP interface, Dry Contact or MODBUS 6 RS485 port 7 Cold Start 8 Input bypass switch 9 Manual bypass switch for maintenance 10 Output voltage switch 11 Input voltage switch 12 Battery voltage switch 13 Input/output, External Battery Box, Terminal Block

Main Specifications

- For Local Area Network (LAN), Data Centers, Industrial equipment, Electromedical equipment
- Power factor 1
- Double input mains/bypass
- Rectifier realized by IGBT technology
- Compatible with Generators
- Battery recharge system managed by microprocessor
- Hot Swap Battery
- Static and manual bypass
- Expandable up to 2 units in parallel
- UPS Management Software compatible with Windows, Mac OS X, Unix, Linux, etc.

HIGH EFFICENCY 97%

Specifications

UPS Model	EVO DSP PRO TT 40.0 PF 1				EVO DSP PRO TT 60.0 PF 1			
Code	FGCEDP40TTHS/00	FGCEDP40TTHS/2C FGCEDP40TTHS/3C FGCEDP40TTHS/4C	FGCEDP40TTHS/2D FGCEDP40TTHS/3D FGCEDP40TTHS/4D	FGCEDP40TTHS/2E FGCEDP40TTHS/3E FGCEDP40TTHS/4E	FGCEDP60TTHS/00	FGCEDP60TTHS/4C	FGCEDP60TTHS/4D	FGCEDP60TTHS/4E
Nominal power	40 KVA				60 KVA			
Active power	40 KW				60 KW			
Power factor	1							
Technology	On-Line Double Conversion transformerless (VFI-SS-111)							
Cooling	Fan cooling							
Dimension (UPS) WxHxD	50x135x87,8cm							
Dimension (with packing) WxHxD	63x155x97,8cm							
Weight	85 Kg	237 Kg 313 Kg 389 Kg	277 Kg 373 Kg 469 Kg	301 Kg 409 Kg 517 Kg	87 Kg	391 Kg	471 Kg	519 Kg
Input								
Number of phases	3Ph+N							
Nominal voltage	380Vac/400Vac/415Vac							
Nominal voltage (Ph-N)	220Vac/230Vac/240Vac							
Input voltage range (Ph-N)	176Vac-276Vac to 100% load, 130Vac-300Vac to 50% load							
Nominal frequency	50/60 Hz							
Input frequency range On-Line mode	40-70 Hz							
Input current harmonic distortion THDi	≤3%							
Input power factor	0,99							
Output								
Number of phases	3Ph+N							
Nominal voltage	380Vac/400Vac/415Vac (Ph-N: 220Vac/230Vac/240Vac)							
Voltage Regulation (On-Line and Battery mode)	±1%							
Voltage THD at rated linear load	<1% (linear load) - <5% (distorting load)							
Crest factor	3:1							
Frequency	50/60 Hz							
Frequency stability	±0,1 Hz							
Inverter waveform	Sinewave							
Overload capability (On-line mode)	100-110% for 60 minutes, 100-125% for 10 minutes,125-150% for 1 minute, >150 200ms							
Overload capability (Battery mode)	100-110% for 60 minutes, 100-125% for 10 minutes,125-150% for 1 minute, >150 200ms							
Efficiency	97%, calculated in double conversion mode at 100% load according to standard 62040-3							
Transfer time	0 ms (On-Line)							
Battery								
Type	Lead acid, sealed, maintenance free							
Battery strip type	Half metal standard - Full metal optional							
Installed inside	16 empty battery strip	80 elements (8 battery strip) 120 elements (12 battery strip) 160 elements (16 battery strip)			16 empty battery strip	160 elements (16 battery strip)		
Battery charge time (typical)	6-8 hours							
Battery charger	20A max (selectable)							
Environmental specification								
Working temperature	From 0 to 55 °C (recommended from 20 to 25 °C)							
Humidity	< 95% without condensation							
Maximum altitude	3000 m							
IP protection	IP20							
Certifications	CE (Standards: Low Voltage Directive IEC EN 62040-1; EMC Directive IEC EN 62040-2; classification IEC EN 62040-3)							

Accessories

Model	Code
Dry Contact DB9 Interface	FGCEDPDRY5
Dry Contact 9 PIN Interface	FGCEDPDRY6

Model	Code
SNMP Internal Interface	FGCNETAG13
ModBus RS485 Interface	FGCEDPRS485

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High Italian Quality

UPS Management Software

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RoHS COMPLIANT CE

NEW

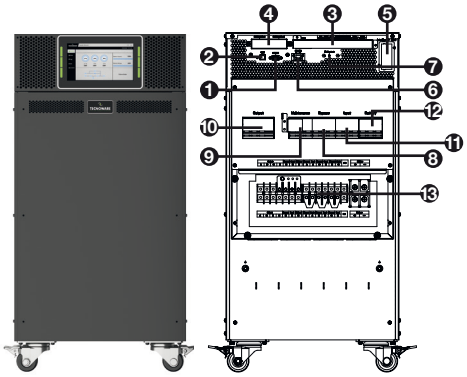
ON LINE

UPS EVO DSP PRO TT PF 1

10-20-30

Together on

POWER FACTOR 1





Hot Swap Battery System



DISPLAY **LCD**
color touch

1 RS232 port 2 USB port 3 Dry contact and EPO connector 4 Interface for parallel connection 5 Slot for SNMP interface, Dry Contact or MODBUS 6 RS485 port
7 Cold Start 8 Input bypass switch 9 Manual bypass switch for maintenance 10 Output voltage switch 11 Input voltage switch 12 Battery voltage switch
13 Input/output, External Battery Box, Terminal Block

Main Specifications

- For Local Area Network (LAN), Data Centers, Industrial equipment, Electromedical equipment
- Power factor 1
- Double input mains/bypass
- Selectable operation mode (3P/3P, 3P/1P, 1P/1P)
- Rectifier realized by IGBT technology
- Compatible with Generators
- Battery recharge system managed by microprocessor
- Hot Swap Battery
- Static and manual bypass
- Expandable up to 2 units in parallel
- UPS Management Software compatible with Windows, Mac OS X, Unix, Linux, etc.

HIGH EFFICENCY 97%

Specifications

UPS Model	EVO DSP PRO TT 10.0-20.0-30.0 PF 1											
Code	FGCEDP10TTHS/00	FGCEDP10TTHS/C FGCEDP10TTHS/2C	FGCEDP10TTHS/D FGCEDP10TTHS/2D	FGCEDP10TTHS/E FGCEDP10TTHS/2E	FGCEDP20TTHS/00	FGCEDP20TTHS/C FGCEDP20TTHS/2C	FGCEDP20TTHS/D FGCEDP20TTHS/2D	FGCEDP20TTHS/E FGCEDP20TTHS/2E	FGCEDP30TTHS/00	FGCEDP30TTHS/2C	FGCEDP30TTHS/2D	FGCEDP30TTHS/2E
Nominal power	10 KVA				20 KVA				30 KVA			
Active power	10 KW				20 KW				30 KW			
Power Factor	1											
Technology	On-Line Double Conversion transformerless (VFI-SS-111)											
Cooling	Fan cooling											
Dimension (UPS) WxHxD	40x78,3x79 cm											
Dimension (with packing) WxHxD	53x98,3x89 cm											
Weight	67 Kg	143 Kg 219 Kg	163 Kg 259 Kg	175 Kg 283 Kg	68 Kg	144 Kg 220 Kg	164 Kg 260 Kg	176 Kg 284 Kg	70 Kg	222 Kg	262 Kg	286 Kg
Input												
Number of phases	3Ph+N											
Nominal voltage	380Vac/400Vac/415Vac											
Nominal voltage (Ph-N)	220Vac/230Vac/240Vac											
Input voltage range (Ph-N)	176Vac-276Vac to 100% load, 130Vac-300Vac to 50% load											
Nominal frequency	50/60 Hz											
Input frequency range On-Line mode	40-70 Hz											
Input current harmonic distortion (THDi)	≤2%											
Input power factor	0,99											
Output												
Number of phases	3Ph+N											
Nominal voltage	380Vac/400Vac/415Vac (Ph-N: 220Vac/230Vac/240Vac)											
Voltage Regulation (On-Line and Battery mode)	±1%											
Voltage THD at rated linear load	<1% (linear load) - <5% (distorting load)											
Crest factor	3:1											
Frequency	50/60 Hz											
Frequency stability	±0,1 Hz											
Inverter waveform	Sinewave											
Overload capability (On-line mode))	100-110% for 60 minutes, 110-125% for 10 minutes,125-150% for 1 minute, >150 200ms											
Overload capability (Battery mode)	100-110% for 60 minutes, 110-125% for 10 minutes,125-150% for 1 minute, >150 200ms											
Efficiency	97%, calculated in double conversion mode at 100% load to 100% load according to standard 62040-3											
Transfer time	0 ms (On-Line)											
Battery												
Type	Lead acid, sealed, maintenance free											
Battery strip type	Half metal standard - Full metal optional											
Installed inside	8 empty battery strip	40 elements (4 battery strip) 80 elements (8 battery strip)			8 empty battery strip	40 elements (4 battery strip) 80 elements (8 battery strip)			8 empty battery strip	80 elements (8 battery strip)		
Battery charge time (typical)	6-8 hours											
Battery charger	20A max (selectable)											
Environmental specification												
Working temperature	From 0 to 55 °C (recommended from 20 to 25 °C, for longer battery life)											
Humidity	< 95% without condensation											
Maximum altitude	3000 m											
IP protection	IP20											
Certifications	CE (Standards: Low Voltage Directive IEC EN 62040-1; EMC Directive IEC EN 62040-2; classification IEC EN 62040-3)											

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Accessories

Model	Code
Dry Contact DB9 Interface	FGCEDPDRY5
Dry Contact 9 PIN Interface	FGCEDPDRY6

Model	Code
SNMP Internal Interface	FGCNETAG13
ModBus RS485 Interface	FGCEDPRS485

High Italian Quality

PAGE 24

UPS Management Software

TECNOWARE

RoHS COMPLIANT CE

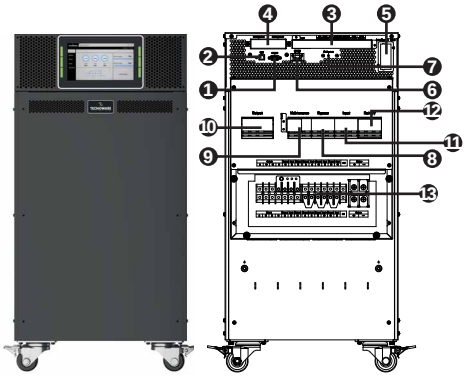
ON LINE

UPS EVO DSP PRO TM PF1
10-20

NEW

Together on

POWER FACTOR 1





Hot Swap Battery System



DISPLAY **LCD**
color touch

1 RS232 port 2 USB port 3 Dry contact and EPO connector 4 Interface for parallel connection 5 Slot for SNMP interface, Dry Contact or MODBUS 6 RS485 port
7 Cold Start 8 Input bypass switch 9 Manual bypass switch for maintenance 10 Output voltage switch 11 Input voltage switch 12 Battery voltage switch
13 Input/output, External Battery Box, Terminal Block

Main Specifications

- For Local Area Network (LAN), Data Centers, Industrial equipment, Electromedical equipment
- Power factor 1
- Double input mains/bypass
- Selectable operation mode (3P/3P, 3P/1P, 1P/1P)
- Rectifier realized by IGBT technology
- Compatible with Generators
- Battery recharge system managed by microprocessor
- Hot Swap Battery
- Static and manual bypass
- Expandable up to 2 units in parallel
- UPS Management Software compatible with Windows, Mac OS X, Unix, Linux, etc.

HIGH EFFICIENCY 97%

Specifications

UPS Model	EVO DSP PRO TM 10.0-20.0 PF 1							
Code	FGCEDP10TMHS/00	FGCEDP10TMHS/C FGCEDP10TMHS/2C	FGCEDP10TMHS/D FGCEDP10TMHS/2D	FGCEDP10TMHS/E FGCEDP10TMHS/2E	FGCEDP20TMHS/00	FGCEDP20TMHS/C FGCEDP20TMHS/2C	FGCEDP20TMHS/D FGCEDP20TMHS/2D	FGCEDP20TMHS/E FGCEDP20TMHS/2E
Nominal power	10 KVA				20 KVA			
Active power	10 KW				20 KW			
Power Factor	1							
Technology	On-Line Double Conversion transformerless (VFI-SS-111)							
Cooling	Fan cooling							
Dimension (UPS) WxHxD	40x78,3x79 cm							
Dimension (with packing) WxHxD	53x98,3x89 cm							
Weight	67 Kg	143 Kg 219 Kg	163 Kg 259 Kg	175 Kg 283 Kg	68 Kg	144 Kg 220 Kg	164 Kg 260 Kg	176 Kg 284 Kg
Input								
Number of phases	3Ph+N							
Nominal voltage	380Vac/400Vac/415Vac							
Nominal voltage (Ph-N)	220Vac/230Vac/240Vac							
Input voltage range (Ph-N)	176Vac-276Vac to 100% load, 130Vac-300Vac to 50% load							
Nominal frequency	50/60 Hz							
Input frequency range On-Line mode	40-70 Hz							
Input current harmonic distortion (THDi)	≤2%							
Input power factor	0,99							
Output								
Number of phases	1Ph+N							
Nominal voltage	220Vac/230Vac/240Vac							
Voltage Regulation (On-Line and Battery mode)	±1%							
Voltage THD at rated linear load	<1% (linear load) - <5% (distorting load)							
Crest factor	3:1							
Frequency	50/60 Hz							
Frequency stability	±0,1 Hz							
Inverter waveform	Sinewave							
Overload capability (On-line mode))	100-110% for 60 minutes, 110-125% for 10 minutes,125-150% for 1 minute, >150 200ms							
Overload capability (Battery mode)	100-110% for 60 minutes, 110-125% for 10 minutes,125-150% for 1 minute, >150 200ms							
Efficiency	97%, calculated in double conversion mode at 100% load to 100% load according to standard 62040-3							
Transfer time	0 ms (On-Line)							
Battery								
Type	Lead acid, sealed, maintenance free							
Battery strip type	Half metal standard - Full metal optional							
Installed inside	8 empty battery strip	40 elements (4 battery strip) 80 elements (8 battery strip)			8 empty battery strip	40 elements (4 battery strip) 80 elements (8 battery strip)		
Battery charge time (typical)	6-8 hours							
Battery charger	20A max (selectable)							
Environmental specification								
Working temperature	From 0 to 55 °C (recommended from 20 to 25 °C, for longer battery life)							
Humidity	< 95% without condensation							
Maximum altitude	3000 m							
IP protection	IP20							
Certifications	CE (Standards: Low Voltage Directive IEC EN 62040-1; EMC Directive IEC EN 62040-2; classification IEC EN 62040-3)							

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Accessories

Model	Code
Dry Contact DB9 Interface	FGCEDPDRY5
Dry Contact 9 PIN Interface	FGCEDPDRY6

Model	Code
SNMP Internal Interface	FGCNETAG13
ModBus RS485 Interface	FGCEDPRS485

High Italian Quality

UPS Management Software

TECNOWARE

RoHS COMPLIANT CE

NEW

ON LINE

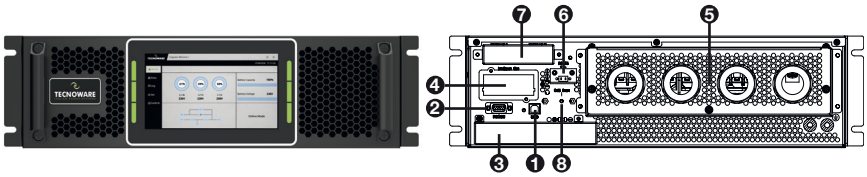
UPS EVO DSP PRO TT RT PF 1

10-20

Together on

POWER FACTOR 1







DISPLAY **LCD**
color touch

1 USB port 2 RS232 port 3 Dry contact and EPO connector 4 Slot for SNMP, Dry Contact or MODBUS 5 Input/output, External Battery Box, Terminal Block
6 RS485 port 7 Interface for parallel connection 8 Cold Start

Main Specifications

- For Local Area Network (LAN), Data Centers, Industrial equipment, Electromedical equipment
- Power factor 1
- Double input mains/bypass
- Selectable operation mode (3P/3P, 3P/1P, 1P/1P)
- Rectifier realized by IGBT technology
- Compatible with Generators
- Battery recharge system managed by microprocessor
- Static bypass
- Expandable up to 2 units in parallel
- UPS Management Software compatible with Windows, Mac OS X, Unix, Linux, etc.

HIGH EFFICENCY 97%

Specifications

UPS Model	EVO DSP PRO TT RT 10.0-20.0 PF 1	
Code	FGCEDP10TTRT/00	FGCEDP20TTRT/00
Nominal power	10 KVA	20 KVA
Active power	10 KW	20 KW
Power Factor	1	
Technology	On-Line Double Conversion transformerless (VFI-SS-111)	
Cooling	Fan cooling	
Dimension (UPS) WxHxD	44x13x77,5 cm (3U)	
Dimension (with packing) WxHxD	59x23x92,5 cm	
Weight	21,5 Kg	22,5 Kg
Input		
Number of phases	3Ph+N	
Nominal voltage	380Vac/400Vac/415Vac	
Nominal voltage (Ph-N)	220Vac/230Vac/240Vac	
Input voltage range (Ph-N)	176Vac-276Vac to 100% load, 130Vac-300Vac to 50% load	
Nominal frequency	50/60 Hz	
Input frequency range On-Line mode	40-70 Hz	
Input current harmonic distortion (THDi)	≤2%	
Input power factor	0,99	
Output		
Number of phases	3Ph+N	
Nominal voltage	380Vac/400Vac/415Vac (Ph-N: 220Vac/230Vac/240Vac)	
Voltage Regulation (On-Line and Battery mode)	±1%	
Voltage THD at rated linear load	<1% (linear load) - <5% (distorting load)	
Crest factor	3:1	
Frequency	50/60 Hz	
Frequency stability	±0,1 Hz	
Inverter waveform	Sinewave	
Overload capability (On-line mode)	100-110% for 60 minutes, 110-125% for 10 minutes,125-150% for 1 minute, >150 200ms	
Overload capability (Battery mode)	100-110% for 60 minutes, 110-125% for 10 minutes,125-150% for 1 minute, >150 200ms	
Efficiency	97%, calculated in double conversion mode at 100% load to 100% load according to standard 62040-3	
Transfer time	0 ms (On-Line)	
Battery (fitted inside the external Battery Box)		
Type	Lead acid, sealed, maintenance free or lithium	
Batteries number	20 (10+10, ±120Vdc) default - selectable 20-50 pcs	40 (20+20, ±240Vdc) default - selectable 30-50 pcs
Extended autonomy	External Battery Box (optional)	
Battery charger	20A max (selectable)	
Environmental specification		
Working temperature	From 0 to 55 °C (recommended from 20 to 25 °C, for longer battery life)	
Humidity	< 95% without condensation	
Maximum altitude	3000 m	
IP protection	IP20	
Certifications	CE (Standards: Low Voltage Directive IEC EN 62040-1; EMC Directive IEC EN 62040-2; classification IEC EN 62040-3)	

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Accessories

Model	Code
Dry Contact DB9 Interface	FGCEDPDRY5
Dry Contact 9 PIN Interface	FGCEDPDRY6
SNMP Internal Interface	FGCNETAG13
ModBus RS485 Interface	FGCEDPRS485
Kit 2 shelves for UPS Rack Installation	FGCKITEVORT

High Italian Quality

UPS Management Software

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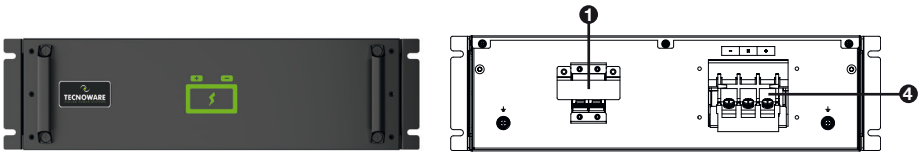
NEW

UPS EVO DSP PRO TT RT PF 1

BATTERY BOX

Together on

HOT SWAP BATTERY SYSTEM



1 Battery switch breacker 2 Terminal Block for the UPS connection or Extra Battery Box

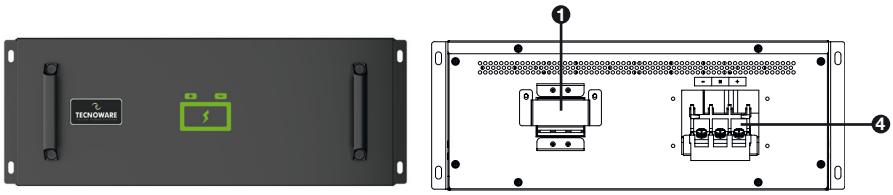
Main Specifications

- Batteries with circuit breaker protection
- Easy connection to UPS
- Hot Swap batteries
- Rack 19", height 3U
- Packaging containing separate Battery Box and Battery Pack

Specifications

Model	BATTERY BOX FOR EVO DSP PRO 10.0 RACK TOWER PF 1			
Code	**FBBEDP240RM/00**	**FBBEDP240RM/07**	**FBBEDP240RM/09**	**FBBEDP240RM/11**
Box dimension WxHxD	44 x 13 x 72,1cm (3U)			
Pack dimension WxHxD	59 x 35 x 87,5 cm			
Weight	10 Kg	57 Kg	63 Kg	68 Kg
Battery				
Batteries number	20 (10+10, ±120Vdc)			
Type	Lead acid, sealed, maintenance free			
Battery System	Hot-swappable from front side			
Protection				
Battery circuit	Magnetothermic switch			
Environmental specification				
Working temperature	From 0 to 55 °C (recommended from 20 to 25 °C)			
Humidity	< 95% without condensation			
Maximum altitude	3000 m			
IP protection	IP20			
Certifications	CE			

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HOT SWAP BATTERY SYSTEM

1 Battery switch breacker 2 Terminal Block for the UPS connection or Extra Battery Box

Main Specifications

- Batteries with circuit breaker protection
- Easy connection to UPS
- Hot Swap batteries
- Rack 19", height 4U
- Packaging containing separate Battery Box and Battery Pack

Specifications

Model	BATTERY BOX FOR EVO DSP PRO 20.0 RACK TOWER PF 1			
Code	**FBBEDP480RM/00**	**FBBEDP480RM/07**	**FBBEDP480RM/09**	**FBBEDP480RM/11**
Box dimension WxHxD	44 x 17,2 x 88,2cm (4U)			
Pack dimension WxHxD	59 x 45 x103 cm			
Weight	17 Kg	93 Kg	113 Kg	130 Kg
Battery				
Batteries number	40 (20+20, ±240Vdc)			
Type	Lead acid, sealed, maintenance free			
Battery System	Hot-swappable from front side			
Protection				
Battery circuit	Magnetothermic switch			
Environmental specification				
Working temperature	From 0 to 55 °C (recommended from 20 to 25 °C)			
Humidity	< 95% without condensation			
Maximum altitude	3000 m			
IP protection	IP20			
Certifications	CE			

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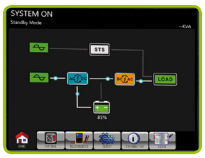
ON LINE

UPS EVO DSP PLUS TT 208V PF 1
30-40

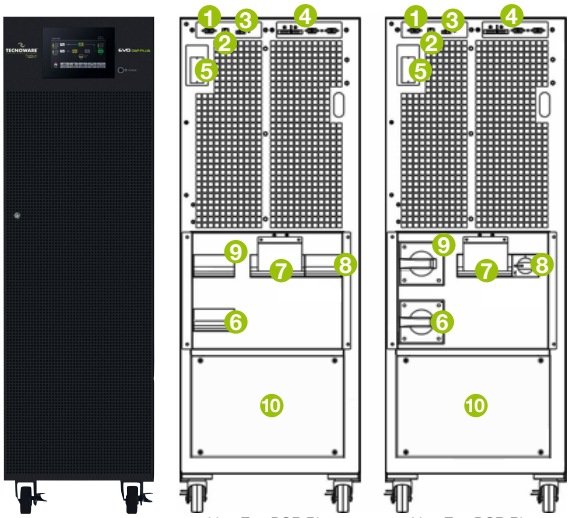
Together on

208 Vac

POWER FACTOR 1



DISPLAY **LCD**
color touch



Ups Evo DSP Plus 30 TT 208V PF 1

Ups Evo DSP Plus 40 TT 208V PF 1

1 RS232 port 2 USB port 3 EPO connector 4 Interface for parallel connection 5 Slot for SNMP interface, Dry Contact or MODBUS 6 Input bypass switch
7 Manual bypass switch for maintenance 8 Output voltage switch 9 Input switch 10 Input/output/ external Battery Box terminal box

Main Specifications

- Local Area Networks (LAN), Data Centers, Industrial equipment, Electromedical equipment
- Power factor 1
- Rectifier realized by IGBT technology
- Compatible with Generators
- Battery charging system controlled by microprocessor
- Static and manual bypass
- Expandable up to 3 units in parallel with shared Box Battery
- UPS Management Software TecnoManager compatible with Windows, Mac OS X, Unix, Linux, etc.

HIGH EFFICENCY 94%

Specifications

Modelo	EVO DSP PLUS 30 TT 208V PF 1	EVO DSP PLUS 40 TT 208V PF 1
Code	**FGCEDP30TT208/00**	**FGCEDP40TT208/00**
Nominal power	30 KVA	40 KVA
Active power	30 KW	40 KW
Power factor	1	
Technology	On-Line Double Conversion transformerless (VFI-SS-111)	
Cooling	Fan cooling	
Dimension (UPS) WxHxD	25x82,6x62,6cm	
Dimension (with packing) WxHxD	38x106,1x76,4cm	
Weight	112 Kg	117 Kg
Input		
Number of phases	3Ph+N	
Nominal voltage	208Vac/220Vac	
Nominal voltage (Ph-N)	120Vac/127Vac	
Input voltage range (Ph-N)	88Vac-146Vac to 100% load, 70Vac-156Vac to 50% load	
Nominal frequency	50/60 Hz	
Input frequency range On-Line mode	±7%	
Input current harmonic distortion THDi	<9% to 50% load, <6% to 100% load	
Input power factor	0,99	
Output		
Number of phases	3Ph+N	
Nominal voltage	208Vac/220Vac (Ph-N: 120Vac/127Vac)	
Voltage Regulation (On-Line and Battery mode)	±1%	
Voltage THD at rated linear load	<2% (linear load) - <4% (distorting load)	
Crest factor	3:1	
Frequency	50/60 Hz	
Frequency stability	±0,1 Hz	
Inverter waveform	Sinewave	
Overload capability (On-line mode)	100-110% for 60 minutes, 100-125% for 10 minutes,125-150% for 1 minute, >150 immediate	
Overload capability (Battery mode)	100-110% for 60 minutes, 100-125% for 10 minutes,125-150% for 1 minute, >150 immediate	
Efficiency	94%, calculated in double conversion mode at 100% load according to standard 62040-3	
Transfer time	0 ms (On-Line)	
Battery		
Type	Lead acid, sealed, maintenance free	
Extended autonomy	External Battery Box (optional) ±120Vdc	
Environmental specification		
Working temperature	From 0 to 55 °C (recommended from 20 to 25 °C)	
Humidity	< 95% without condensation	
Maximum altitude	3000 m	
IP protection	IP20	
Certifications	CE (Standards: Low Voltage Directive IEC EN 62040-1; EMC Directive IEC EN 62040-2; classification IEC EN 62040-3)	

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Accessories

Model	Code
Parallel Kit	FGCKITPARCA1
Internal SNMP interface	FGCNETAG7
Internal SNMP interface	FGCNETAG11

Model	Code
DB9 Interface	FGCEVODSDRY3
Dry Contact 9 PIN Interface	FGCEVODSDRY4
ModBus RS485 Interface	FGCMODBUS

High Italian Quality

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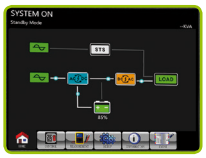
ON LINE

UPS EVO DSP PLUS TT 208 VAC PF 1
10-20

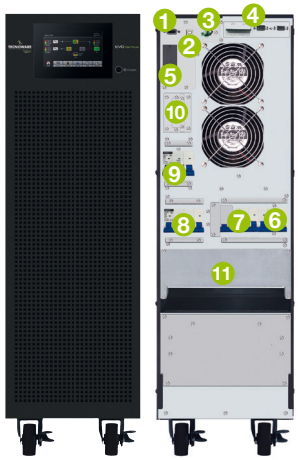
Together on

208 Vac

POWER FACTOR 1



DISPLAY **LCD**
color touch



Ups Evo DSP Plus 10 TT 208V PF 1



Ups Evo DSP Plus 20 TT 208V PF 1

1 RS232 port 2 USB port 3 EPO connector 4 Interface for parallel connection 5 Slot for SNMP interface, Dry Contact or MODBUS 6 Input bypass switch
7 Manual bypass switch for maintenance 8 Output voltage switch 9 Input switch 10 Connector for external Battery Box 11 Input/output terminal box

Main Specifications

- Local Area Networks (LAN), Data Centers, Industrial equipment, Electromedical equipment
- Power factor 1
- Rectifier realized by IGBT technology
- Compatible with Generators
- Battery charging system controlled by microprocessor
- Static and manual bypass
- Expandable up to 3 units in parallel with shared Box Battery
- UPS Management Software TecnoManager compatible with Windows, Mac OS X, Unix, Linux, etc.

HIGH EFFICENCY 94%

Specifications

UPS Model	EVO DSP PLUS 10 TT 208V PF 1	EVO DSP PLUS 20 TT 208V PF 1
Code	**FGCEDP10TT208/00**	**FGCEDP20TT208/00**
Nominal power	10 KVA	20 KVA
Active power	10 KW	20 KW
Power factor	1	
Technology	On-Line Double Conversion transformerless (VFI-SS-111)	
Cooling	Fan cooling	
Dimension (UPS) WxHxD	25x82,6x62,6cm	30x100x81,5cm
Dimension (with packing) WxHxD	38x106,1x76,4cm	43x123,5x95,3cm
Weight	45 Kg	71Kg
Input		
Number of phases	3Ph+N	
Nominal voltage	208Vac/220Vac	
Nominal voltage (Ph-N)	120Vac/127Vac	
Input voltage range (Ph-N)	88Vac-146Vac to 100% load, 70Vac-156Vac to 50% load	
Nominal frequency	50/60 Hz	
Input frequency range On-Line mode	±7%	
Input current harmonic distortion THDi	<9% to 50% load, <6% to 100% load	
Input power factor	0,99	
Output		
Number of phases	3Ph+N	
Nominal voltage	208Vac/220Vac (Ph-N: 120Vac/127Vac)	
Voltage Regulation (On-Line and Battery mode)	±1%	
Voltage THD at rated linear load	<2% (linear load) - <4% (distorting load)	
Crest factor	3:1	
Frequency	50/60 Hz	
Frequency stability	±0,1 Hz	
Inverter waveform	Sinewave	
Overload capability (On-line mode)	100-110% for 60 minutes, 100-125% for 10 minutes,125-150% for 1 minute, >150 immediate	
Overload capability (Battery mode)	100-110% for 60 minutes, 100-125% for 10 minutes,125-150% for 1 minute, >150 immediate	
Efficiency	94%, calculated in double conversion mode at 100% load according to standard 62040-3	
Transfer time	0 ms (On-Line)	
Battery		
Type	Lead acid, sealed, maintenance free	
Ready for installed inside	Ready for 32 elements (2 set 8+8)	
Extended autonomy	External Battery Box (optional) ±96Vdc	
Environmental specification		
Working temperature	From 0 to 55 °C (recommended from 20 to 25 °C)	
Humidity	< 95% without condensation	
Maximum altitude	3000 m	
IP protection	IP20	
Certifications	CE (Standards: Low Voltage Directive IEC EN 62040-1; EMC Directive IEC EN 62040-2; classification IEC EN 62040-3)	

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Accessories

Model	Code
Parallel Kit	FGCKITPARCA1
Internal SNMP interface	FGCNETAG7
Internal SNMP interface	FGCNETAG11

Model	Code
DB9 Interface	FGCEVODSDRY3
Dry Contact 9 PIN Interface	FGCEVODSDRY4
ModBus RS485 Interface	FGCMODBUS

High Italian Quality

TECNOManager UPS Management Software

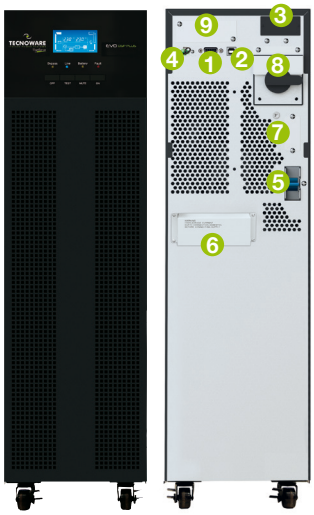
TECNOWARE

RoHS COMPLIANT CE

UPS EVO DSP PLUS PF 1
6-10

Together on

POWER FACTOR 1



Ups Evo DSP Plus 6.0-10.0 PF 1

1 RS232 port 2 USB port 3 Slot for SNMP interface, Dry Contact or MODBUS 4 EPO connector 5 Switch mains input 6 Input/output terminal block
7 Connector for external Battery Box 8 Manual bypass switch for maintenance 9 Interface for parallel connection

Main Specifications

- Local Area Network (LAN), Data Centers, Industrial equipment, Electromedical equipment
- Power factor 1
- Rectifier realized by IGBT technology
- Compatible with generators
- Battery charging system controlled by microprocessor
- Extension Back-up time by external Battery box
- Back feed protection
- Static and Manual Bypass
- Expandable up to 2 units in parallel
- UPS Management Software TecnoManager compatible with Windows, Mac OS X, Unix, Linux, etc.

HIGH EFFICENCY 94%

Specifications

Modello UPS	EVO DSP PLUS 6.0 PF 1				EVO DSP PLUS 10.0 PF 1			
Codice	FGCEDP6MM2/00	FGCEDP6MM2/C	FGCEDP6MM2/D	FGCEDP6MM2/E	FGCEDP10MM2/00	FGCEDP10MM2/C	FGCEDP10MM2/D	FGCEDP10MM2/E
Nominal power	6 KVA				10 KVA			
Active power	6 KW				10 KW			
Power factor	1							
Technology	On-Line Double Conversion transformerless (VFI-SS-111)							
Cooling	Fan cooling							
Audible noise	< 55 dBA to 1 m				< 58 dBA to 1 m			
Dimension (UPS) WxHxD	19x68,8x36,9 cm				19x68,8x44,2 cm			
Dimension (with packing) WxHxD	32x92,2x51,4 cm				32x92,2x58,7 cm			
Weight	18 Kg	57 Kg	62 Kg	65 Kg	23 Kg	62 Kg	67 Kg	70 Kg
Input								
Number of phases	1Ph+N							
Nominal voltage	208Vac/220Vac/230Vac/240Vac							
Input voltage range	176Vac-300Vac from 50% to the 100% of loading, 110Vac-300Vac up to 50% load							
Nominal frequency	50/60 Hz (selectable)							
Input frequency range (On-Line mode)	±7%							
Input power factor	0,99							
Output								
Number of phases	1Ph+N							
Nominal voltage	208Vac/220Vac/230Vac/240Vac							
Voltage Regulation at %100 linear load (On-Line and Battery mode)	±2%							
Voltage THD at rated linear load	<3% (linear load), <5% (non-linear load)							
Crest factor	3:1							
Frequency	50/60 Hz (selectable)							
Frequency stability	±0,1 Hz							
Inverter waveform	Sinewave							
Overload capability (Line mode)	110% for 30 minutes, 130% for 5 minutes, >130% for 10 seconds							
Overload capability (Battery mode)	110% for 3 minutes, 130% for 30 seconds, >130% for 10 seconds							
Efficiency	94%, calculated in double conversion mode at 100% load to 100% load according to standard 62040-3							
Transfer time	0 ms (On-Line)							
Battery								
Type	Lead acid, sealed, maintenance free							
Installed inside	-	16 elements			-	16 elements		
Extended autonomy	External Battery Box (optional)							
Environmental specification								
Working temperature	From 0 to 55 °C (recommended from 20 to 25 °C)							
Humidity	< 95% without condensation							
Maximum altitude	3000 m							
IP protection	IP20							
Certifications	CE (Standards: Low Voltage Directive IEC EN 62040-1; EMC Directive IEC EN 62040-2; classification IEC EN 62040-3)							

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Accessories

Model	Code
Dry Contact DB9 Interface	FGCEVODSDRY3
Dry Contact 9 PIN Interface	FGCEVODSDRY4
SNMP Internal Interface	FGCNETAG7

Model	Code
SNMP Internal Interface	FGCNETAG11
ModBus RS485 Interface	FGCMODBUS

High Italian Quality

TECNOManager UPS Management Software

TECNOWARE

RoHS COMPLIANT CE

UPS EVO DSP PLUS PF 1
BATTERY BOX

Together on



1 Thermal Fuse protecting the battery charger circuit 2 Power Socket for the battery charger circuit 3 Thermal switch for battery circuit
4 Connector for the UPS connection 5 Extra Battery Box connector

Main Specifications

- Internal battery charger on every unit
- Units can be expanded infinitely
- Batteries with thermal circuit protection
- Easy connection to UPS
- Reduced dimensions
- Easy installation and maintenance

Specifications

Model	BATTERY BOX FOR EVO DSP PLUS 6.0-10.0 PF 1												
Code	FBBEVDP192A/00	FBBEVDP192A/07	FBBEVDP192A/14	FBBEVDP192A/21	FBBEVDP192A/28	FBBEVDP192A/09	FBBEVDP192A/18	FBBEVDP192A/27	FBBEVDP192A/36	FBBEVDP192A/11	FBBEVDP192A/22	FBBEVDP192A/33	FBBEVDP192A/44
Box dimension WxHxD	25 x 83,3 x 80 cm												
Pack dimension WxHxD	38 x 105,8 x 96,5 cm												
Weight	49 Kg	81,4 Kg	107,8 Kg	134,2 Kg	160,6 kg	90,5 kg	126 kg	161,5 Kg	197,1 Kg	98,2 Kg	141,4 Kg	184,6 Kg	227,8 Kg
Battery													
Type	Lead acid, sealed, maintenance free												
Internal battery charger													
Nominal input voltage	230Vac												
Nominal input frequency	50/60Hz												
Nominal charging voltage	219,2Vdc												
Max charging current	Selectable	0,7A	1,4A	2,1A	2,8A	0,9A	1,8A	2,7A	3,6A	1,1A	2,2A	3,3A	4,4A
Protection													
Battery charge input	Thermal fuse												
Battery circuit	Magnetothermic switch												
Environmental specification													
Working temperature	From 0 to 55 °C (recommended from 20 to 25 °C)												
Humidity	< 95% without condensation												
Maximum altitude	3000 m												
IP protection	IP20												
Certifications	CE												

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NEW

ON LINE

UPS EVO DSP PRO RT PF 1

6-10

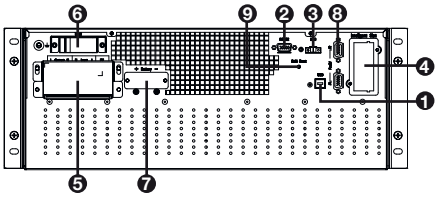
Together on

HOT SWAP BATTERY SYSTEM

POWER FACTOR 1









DISPLAY **LCD** color touch

1 USB port 2 RS232 port 3 EPO connector 4 Slot for SNMP, Dry Contact or MODBUS

5 Input/output Terminal Box 6 Input switch breacker 7 External Battery Box connector 8 Interface for parallel connection 9 Cold Start

Main Specifications

- For Local Area Network (LAN), Data Centers
- Power factor 1
- Rectifier realized by IGBT technology
- Compatible with Generators
- Battery charging system controlled by microprocessor
- Hot Swap Battery
- Back feed protection
- Static Bypass
- Expandable up to 2 units in parallel
- Packaging containing separate Battery Box and Battery Pack
- UPS Management Software compatible with Windows, Mac OS X, Unix, Linux, etc.

HIGH EFFICENCY 95%

Specifications

UPS Model	EVO DSP PRO 6.0 RACK TOWER PF 1				EVO DSP PLUS 10.0 RACK TOWER PF 1			
Code	FGCEDP6MMRT/00	FGCEDP6MMRT/C	FGCEDP6MMRT/D	FGCEDP6MMRT/E	FGCEDP10MMRT/00	FGCEDP10MMRT/C	FGCEDP10MMRT/D	FGCEDP10MMRT/E
Nominal power	6 KVA				10 KVA			
Active power	6 KW				10 KW			
Power factor	1							
Technology	On-Line Double Conversion transformerless (VFI-SS-111)							
Cooling	Fan cooling							
Audible noise	< 58 dBA to 1 m							
Positioning	Tower positioning or into 19" Rack (4U)							
Dimension (UPS) WxHxD	44x17,2x66 (4U)							
Dimension (with packing) WxHxD	59x45x81 cm							
Weight	32,1 Kg	62,5 Kg	70,5 Kg	75,3 Kg	35,1 Kg	65,5 Kg	73,5 Kg	78,3 Kg
Equipped with	1 serial cable, 2 metal handle for 19" Rack cabinet mounting, 2 tower positioning stands							
Input								
Number of phases	1Ph+N							
Nominal voltage	208Vac/220Vac/230Vac/240Vac							
Input voltage range	176-288Vac 100% load, 154-288Vac 90% load, 132-288Vac 75% load, 110-288Vac 50% load							
Nominal frequency	50/60 Hz (selectable)							
Input frequency range On-Line mode	40-70 Hz							
Input power factor	0,99							
Output								
Number of phases	1Ph+N							
Nominal voltage	208Vac/220Vac/230Vac/240Vac							
Voltage Regulation at %100 linear load (On-Line and Battery mode)	±1% (<5% load response 0%-100%-0%)							
Voltage THD	<1% (linear load), <5% (non-linear load)							
Crest factor	3:1							
Frequency	50/60 Hz (selectable)							
Frequency stability	±0,1 Hz							
Inverter waveform	Sinewave							
Overload capability (Line mode)	100%-110% for 10 minutes, 110%-125% for 1 minute, 125%-150% for 30 second							
Overload capability (Battery mode)	100%-110% for 10 minutes, 110%-125% for 1 minute, 125%-150% for 30 second							
Efficiency	95%, calculated in double conversion mode at 100% load to 100% load according to standard 62040-3							
Transfer time	0 ms (On-Line)							
Output connections	Terminal block							
Battery (fitted inside)								
Batteries number	-	16 - 12VDC 7,2AH	16 - 12VDC 9AH	16 - 12VDC 11AH	-	16 - 12VDC 7,2AH	16 - 12VDC 9AH	16 - 12VDC 11AH
Battery System	Hot-swappable from front side							
Battery charge time (typical)	6-8 hours							
Battery charger	1A-8A (selectable)							
Extended autonomy	External Battery Box (optional)							
Environmental specification								
Working temperature	Da 0 a 55 °C (recommended from 20 to 25 °C)							
Humidity	< 95% without condensation							
Maximum altitude	3000 m							
IP protection	IP20							
Certifications	CE (standards: Low Voltage Directive IEC EN 62040-1; EMC Directive IEC EN 62040-2; classification IEC EN 62040-3)							

Accessories

Model	Code
Bypass Box for Evo Dsp Pro Rack Tower 6.0 and 10.0	FGCBYP10MMRM
Dry Contact DB9 Interface	FGCEDPDRY5
Dry Contact 9 PIN Interface	FGCEDPDRY6

Accessories

Model	Code
SNMP Internal Interface	FGCNETAG13
ModBus RS485 Interface	FGCEDPRS485
Kit 2 shelves for UPS Rack Installation	FGCKITEVORT

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High Italian Quality

UPS Management Software

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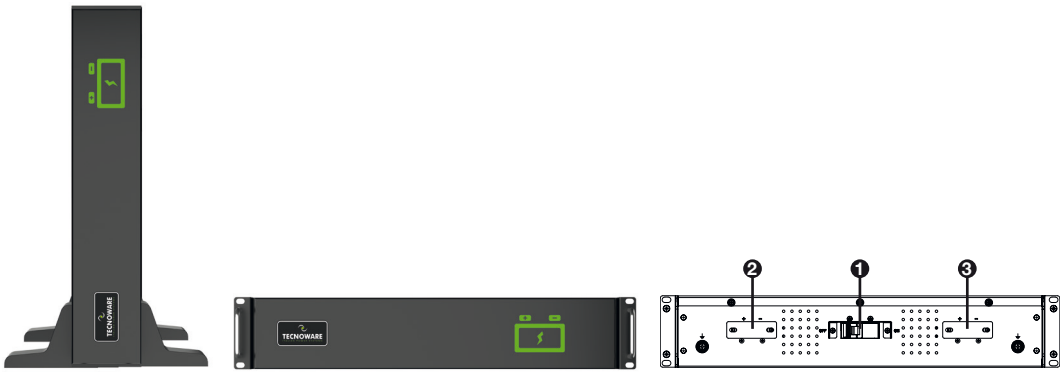
NEW

UPS EVO DSP PLUS RT PF 1

BATTERY BOX

Together on

HOT SWAP
BATTERY SYSTEM



1 Battery switch breacker 2 Connector for the UPS connection 3 Extra Battery Box connector

Main Specifications

- Batteries with circuit breaker protection
- Easy connection to UPS
- Hot Swap batteries
- Rack 19", height 2U and Tower positioning
- Packaging containing separate Battery Box and Battery Pack

Specifications

Model	BATTERY BOX FOR EVO DSP PRO 6.0-10.0 RACK TOWER PF 1			
Code	FBBEDP192RT/00	FBBEDP192RT/07	FBBEDP192RT/09	FBBEDP192RT/11
Box dimension WxHxD	44 x 8,6 x 74 cm (2U)			
Pack dimension WxHxD	59 x 27,2 x 89 cm			
Weight	10 Kg	40 Kg	48 Kg	56 Kg
Battery				
Type	Lead acid, sealed, maintenance free			
Battery System	Hot-swappable from front side			
Protection				
Battery circuit	Magnetothermic switch			
Environmental specification				
Working temperature	From 0 to 55 °C (recommended from 20 to 25 °C)			
Humidity	< 95% without condensation			
Maximum altitude	3000 m			
IP protection	IP20			
Certifications	CE			

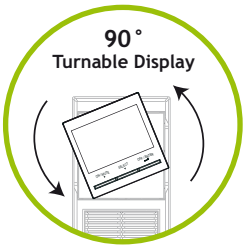
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UPS EVO DSP PLUS RT PF 0,9

1.200-2.400-3.600

Together on







POWER FACTOR 0,9



Input IEC 320 C14 | Output IEC 320 C13

Ups Evo DSP PLUS 1.200 Rack Tower PF 0,9



Input IEC 320 C14 | Output IEC 320 C13

Ups Evo DSP MM 2.400 Rack Tower PF 0,9



Input IEC 320 C20 | Output IEC 320 C13 | Output IEC 320 C19

Ups Evo DSP MM 3.600 Rack Tower PF 0,9

1 Input socket 2 Input Thermal protection 3 IEC320 C13 output sockets with Blackout protection 4 IEC320 C19 output socket with Blackout protection
5 USB port 6 RS232 port 7 Slot for SNMP, Dry Contact or MODBUS interface 8 EPO connector 9 Connector for additional Battery Box

Main Specifications

- For Local Area Network (LAN), Data Centers, Industrial equipment, Electromedical equipment
- Convertible format (Tower or Rack 19") with adjustable display
- Power Factor 0,9
- Rectifier realized by IGBT technology
- Compatible with Generators
- Battery charging system controlled by microprocessor
- Hot Swap Battery
- Back feed protection
- Static Bypass
- Intelligent slot for SNMP or Dry Contact card or MODBUS
- High efficiency and low operating cost
- UPS Management Software TecnoManager compatible with Windows, Mac OS X, Unix, Linux, etc.

HIGH EFFICENCY 94%

Specifications

UPS Model	EVO DSP PLUS 1.200 RACK TOWER PF 0,9	EVO DSP PLUS 2.400 RACK TOWER PF 0,9	EVO DSP PLUS 3.600 RACK TOWER PF 0,9
Code	**FGCEDP1202RTIEC**	**FGCEDP2402RTIEC**	**FGCEDP3602RTIEC**
Nominal Power	1.200 VA	2.400 VA	3.600 VA
Active power	1.080 W	2.160 W	3.240 W
Power factor	0,9		
Technology	On-Line Double Conversion transformerless (VFI-SS-111)		
Cooling	Fan cooling		
Audible noise	< 45 dBA to 1 m		
Positioning	Tower positioning or Into 19" rack (2U)		
Dimension UPS LxHxP	43,8x8,8x31 cm	43,8x8,8x41 cm	43,8x8,8x63 cm
Dimension (with packing) LxHxP	50x18x40 cm	56x18x50 cm	76x20x60 cm
Weight	12 Kg	19 Kg	29 Kg
Input			
Number of phases	1Ph+N		
Nominal voltage	208Vac/220Vac/230Vac/240Vac		
Input voltage range	110-300Vac		
Nominal frequency	50/60 Hz (selectable)		
Input frequency range (On-Line mode)	+/- 7%		
Input power factor	0,99		
Output			
Number of phases	1Ph+N		
Nominal voltage	208Vac/220Vac/230Vac/240Vac (selectable)		
Static voltage Regulation at %100 linear load (On-Line and battery mode)	±1%		
Voltage THD at rated linear load	<2% (linear load), <8% (non-linear load)		
Crest factor	3:1		
Frequency	50/60 Hz (selectable)		
Free running frequency	±0,2 Hz		
Inverter waveform	Sinewave		
Overload capability	110% only audible warning, 110-130% for 30 sec, >130% for 100 ms		
Efficiency	94%, calculated in double conversion metod 100% load according to standard 62040-3		
Transfer time	0 ms (On-Line)		
Battery			
Type	Lead acid, sealed, maintenance free		
Backup time (Typical)	10-30 min		
Extended autonomy	-		External Battery Box (optional)
Environmental specification			
Working temperature	From 0 to 55 °C (recommended from 20 to 25 °C)		
Humidity	< 95% without condensation		
Maximum altitude	3000 m		
IP protection	IP20		
Certifications	CE (Standards: Low Voltage Directive IEC EN 62040-1; EMC Directive IEC EN 62040-2; classification IEC EN 62040-3)		

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Accessories

Model	Code
Bypass Box for UPS RT from 1.2 KVA to 3.6 KVA	FGCBYPIEC
Dry Contact DB9 Interface	FGCEVODSDRY3
Dry Contact 9 PIN Interface	FGCEVODSDRY4
SNMP Internal Interface	FGCNETAG7

Model	Code
SNMP Internal Interface	FGCNETAG11
ModBus RS485 Interface	FGCMODBUS
Kit 2 shelves for UPS Rack Installation	FGCKITEVORT

High Italian Quality

TECNOManager UPS Management Software

TECNOWARE

RoHS COMPLIANT CE

UPS EVO DSP PLUS RT PF 0,9
BATTERY BOX

Together on



1 Connector for the UPS Battery Box connection 2 Extra Battery Box connector 3 Power socket for the battery charger circuit
4 Thermal Fuse protecting the battery charger circuit 5 Thermal switch for battery circuit

Main Specifications

- Internal battery charger on every unit
- Units can be expanded infinitely
- Batteries with thermal circuit protection
- Easy connection to UPS
- Convertible format (Tower or Rack 19")

Specifications

Model	BATTERY BOX FOR EVO DSP PLUS 3.600 RACK TOWER PF 0,9	
Code	FBBEDP3602RT/09	FBBEDP3602RT/18
Positioning	Into Tower or 19" Rack cabinet (2U) positioning	
Dimension (Box) WxHxD	43,8x8,8x63 cm	
Dimension (with packing) WxHxD	60x24x75 cm	
Weight	30 Kg	43 Kg
Battery		
Type	Lead acid, sealed, maintenance free	
Internal Battery Charger		
Nominal input voltage	230Vac	
Nominal input frequency	50/60Hz	
Nominal charging voltage	82,2Vdc	
Max charging current	1A	
Protection		
Battery charge input	Thermal fuse	
Battery circuit	Magnetothermic switch	
Environmental specification		
Working temperature	From 0 to 55 °C (recommended from 20 to 25 °C)	
Humidity	< 95% without condensation	
Maximum altitude	3000 m	
IP protection	IP20	
Certifications	CE	

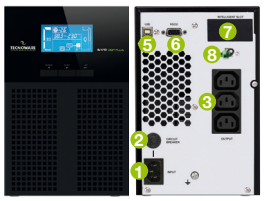
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ON LINE

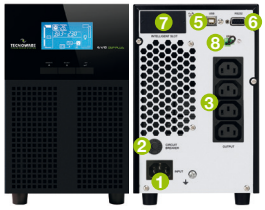
UPS EVO DSP PLUS PF 0,9

1.200-2.400-3.600-5.500

Together on



Ups Evo DSP Plus 1.200 PF 0,9



Ups Evo DSP Plus 2.400 PF 0,9



Ups Evo DSP Plus 3.600 PF 0,9



Ups Evo DSP Plus 5.500 PF 0,9

Input IEC 320 C14	Output IEC 320 C13

Input IEC 320 C14	Output IEC 320 C13

Input IEC 320 C20	Output IEC 320 C13	Output Terminal Block

1 Input connection 2 Input Thermal protection 3 IEC320 C13 output sockets with Blackout protection
4 Output Terminal block with Blackout protection 5 USB port 6 RS232 port 7 Slot for SNMP, Dry Contact or MODBUS interface (for EVO DSP Plus 5.5 PF 0,9 to replace USB e RS232) 8 EPO connector 9 Connector for additional Battery Box
10 Switch mains input 11 Input/output terminal block

POWER FACTOR 0,9

Main Specifications

- For Local Area Network (LAN), Data Centers, Industrial equipment, Electromedical equipment
- Power Factor 0,9
- Rectifier realized by IGBT technology
- Compatible with Generators
- Battery charging system controlled by micro processor
- Intelligent slot for SNMP or Dry Contact card or MODBUS
- Back feed protection
- Static Bypass
- High efficiency and low operating cost
- UPS Management Software TecnoManager compatible with Windows, Mac OS X, Unix, Linux, etc.

HIGH EFFICENCY 94%

Specifications

UPS Model	EVO DSP PLUS 1.200 PF 0,9	EVO DSP PLUS 2.400 PF 0,9	EVO DSP PLUS 3.600 PF 0,9	EVO DSP PLUS 5.500 PF 0,9
Code	**FGCEDP1202IEC**	**FGCEDP2402IEC**	**FGCEDP3602IEC**	**FGCEDP5502MM**
Nominal Power	1.200 VA	2.400 VA	3.600 VA	5.5 KVA
Active Power	1.080 W	2.160 W	3.240 W	4.950 W
Power factor	0,9			
Technology	On-Line Double Conversion transformerless (VFI-SS-111)			
Cooling	Cooling fan			
Audible noise	< 45 dBA to 1 m			< 48 dBA a 1 m
Dimension UPS LxHxP	14,5x22x28,2 cm	14,5x22x39,7 cm	19x31,8x42,1 cm	19x57,3x36,9 cm
Dimension (with packing) LxHxP	23x33x37 cm	23x33x48 cm	33x46x56 cm	33x83,5x50,5 cm
Weight	10 Kg	17 Kg	27 Kg	46 Kg
Input				
Number of phases	1Ph+N			
Nominal voltage	208Vac/220Vac/230Vac/240Vac			
Input voltage range	110-300Vac			176Vac-300Vac from 50% to 100% load, 110Vac-300Vac up to 50% load
Nominal frequency	50/60 Hz (selectable)			
Input frequency range (On-Line mode)	+/- 7%			
Input power factor	0,99			
Output				
Number of phases	1Ph+N			
Nominal voltage	208Vac/220Vac/230Vac/240Vac (selectable)			
Static voltage Regulation at %100 linear load (On-Line and battery mode)	±1%			
Voltage THD at rated linear load	<2% (linear load) <8% (non-linear load)			<3%(linear load), <5% (non-linear load)
Crest factor	5:1			3:1
Frequency	50/60 Hz (selectable)			
Free running frequency	±0,2 Hz			±0,1 Hz
Inverter waveform	Sinewave			
Overload capability (on-line mode)	110% only audible warning, 110-130% for 30 s, >130% for 100 ms			110% for 30 minutes, 130% for 5 minutes, >130% for 10
Overload capability (battery mode)	110% only audible warning, 110-130% for 30 s, >130% for 100 ms			110% for 3 minutes, 130% for 30 seconds, >130% for 10 seconds
Efficiency	94%, calculated in double conversion metod 100% load according to standard 62040-3			
Transfer time	0 ms (On-Line)			
Battery				
Type	Lead acid, sealed, maintenance free			
Extended autonomy	-		External Battery Box (optional)	-
Environmental specification				
Working temperature	From 0 to 55 °C (recommended from 20 to 25 °C)			
Humidity	< 95% without condensation			
Maximum altitude	3000 m			
IP protection	IP20			
Certifications	CE (Standards: Low Voltage Directive IEC EN 62040-1; EMC Directive IEC EN 62040-2; classification IEC EN 62040-3)			

Accessories

Model	Code
Bypass Box for UPS from 1.2 KVA to 3.6 KVA	FGCBYPIEC
Dry Contact DB9 Interface	FGCEVODSDRY3
Dry Contact 9 PIN Interface	FGCEVODSDRY4

Model	Code
SNMP Internal Interface	FGCNETAG7
SNMP Internal Interface	FGCNETAG11
ModBus RS485 Interface	FGCMODBUS

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High Italian Quality

TECNOManager UPS Management Software

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RoHS COMPLIANT CE

UPS EVO DSP PLUS
BATTERY BOX

Together on



1 Connector for the UPS Battery Box connection 2 Extra Battery Box connector 3 Power socket for the battery charger circuit
4 Thermal Fuse protecting the battery charger circuit 5 Thermal switch for battery circuit

Main Specifications

- Internal battery charger on every unit
- Units can be expanded infinitely
- Batteries with thermal circuit protection
- Easy connection to UPS
- Convertible format (Tower or Rack 19")

Specifications

Model	BATTERY BOX FOR EVO DSP PLUS 3.600	
Code	FBBEDP3602RT/09	FBBEDP3602RT/18
Positioning	Into Tower or 19" Rack cabinet (2U) positioning	
Dimension (Box) WxHxD	43,8x8,8x63 cm	
Dimension (with packing) WxHxD	60x24x75 cm	
Weight	30 Kg	43 Kg
Battery		
Type	Lead acid, sealed, maintenance free	
Internal Battery Charger		
Nominal input voltage	230Vac	
Nominal input frequency	50/60Hz	
Nominal charging voltage	82,2Vdc	
Max charging current	1A	
Protection		
Battery charge input	Thermal fuse	
Battery circuit	Magnetothermic switch	
Environmental specification		
Working temperature	From 0 to 55 °C (recommended from 20 to 25 °C)	
Humidity	< 95% without condensation	
Maximum altitude	3000 m	
IP protection	IP20	
Certifications	CE	

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NEW

CENTRAL SUPPLY SYSTEMS

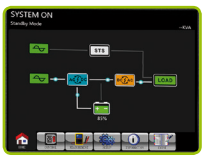
CSS EVO DSP PLUS TT

10-20 KVA

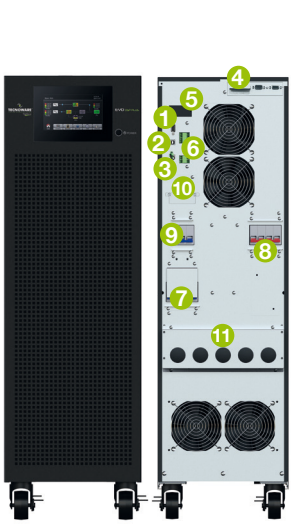
Together on

Compliant with regulations EN 50171

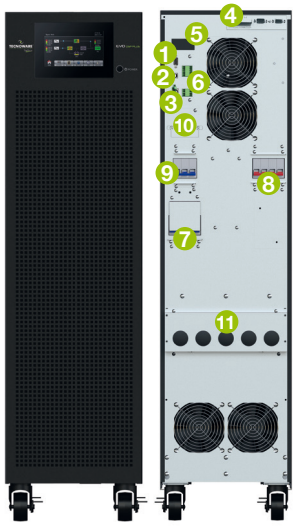
POWER FACTOR 1



DISPLAY **LCD** color touch



CSS Evo DSP Plus TT 10



CSS Evo DSP Plus TT 20

1 RS232 port 2 USB port 3 EPO connector 4 Interface for parallel connection 5 Slot for SNMP interface, Dry Contact or MODBUS 6 Dry Contact
7 Manual bypass switch for maintenance 8 Output voltage switch 9 Input voltage switch 10 Connector for external Battery Box 11 Input/output terminal box

Main Specifications

- For emergency lighting systems, fire safety systems, automatic fire protection systems, alarm systems, smoke extraction equipment and carbon monoxide detection.
- Power factor 1
- Continuous overload capability up to 120%
- Full-load start-up
- Protection against battery polarity reversal
- 10-year design life batteries
- Enclosure compliant with EN 60598-1
- Compatible with Generators
- Battery recharge system managed by microprocessor
- Extension Back-up time by external Battery box
- Static and manual bypass
- Expandable up to 2 units in parallel with shared Box Battery
- CSS Management Software TecnoManager compatible with Windows, Mac OS X, Unix, Linux, etc.

HIGH EFFICENCY 96%

Specifications

Model	CSS EVO DSP PLUS TT 10.0-20.0 (COMPLIANT WITH EN 50171)			
Code	FCSSEDP10TT/00	FCSSEDP10TT/D	FCSSEDP20TT/00	FCSSEDP20TT/D
Nominal power	10 KVA		20 KVA	
Active power	10 KW		20 KW	
Power rating according to EN 50171	8 KVA - 8 KW		16 KVA - 16 KW	
Power factor	1			
Technology	On-Line Double Conversion transformerless (VFI-SS-111))			
Cooling	Fan cooling			
Dimension WxHxD	30x100x81,5 cm		30x114,5x81,5 cm	
Dimension (with packing) WxHxD	43,0x120x92 cm		43,0x136x92 cm	
Weight	165 Kg	203 Kg	259 Kg	319,8 Kg
Input				
Number of phases	3Ph+N			
Nominal voltage	360Vac/380Vac/400Vac/415Vac			
Tensione nominale (F-N)	208Vac/220Vac/230Vac/240Vac			
Input voltage range (F-N)	176Vac-276Vac to 100% of loading, 110Vac-300Vac to 50% of loading			
Nominal frequency	50/60 Hz			
Input frequency range On-Line mode	46-54 Hz o 56-64 Hz			
Input current harmonic distortion (THDi)	≤4%			
Input power factor	0,99			
Output				
Number of phases	3Ph+N			
Nominal voltage	360Vac/380Vac/400Vac/415Vac (F-N: 208Vac/220Vac/230Vac/240Vac)			
Voltage Regulation (On-Line and Battery mode)	±1%			
Voltage THD at rated linear load	<2% (linear load) - <5% (non-linear load)			
Crest factor	3:1			
Frequency	50/60 Hz			
Frequency stability	±0,1 Hz			
Inverter waveform	Sinosoidale			
Overload capability (On-line mode)	100-110% for 60 minutes, 100-125% for 10 minutes,125-150% for 1 minute, >150 immediae			
Overload capability (Battery mode)	100-110% for 60 minutes, 100-125% for 10 minutes,125-150% for 1 minute, >150 immediate			
Inverter overload capability referred to rated power according to EN 50171	120% continuous			
Efficiency	96%, calculated in double conversion mode at 100% load to 100% load according to standard 62040-3			
Transfer time	0 ms (On-Line)			
Battery				
Type	Lead acid, sealed, maintenance free			
Installed inside	-	20 elements (10+10)	-	32 elements (16+16)
Extended autonomy	External Battery Box (opz)	-	External Battery Box (opz)	-
Environmental specification				
Working temperature	From 0 to 55 °C (recommended from 20 to 25 °C, for longer battery life)			
Humidity	< 95% without condensation			
Maximum altitude	3000 m			
IP protection	IP20			
Certifications	CE (Standards: Low Voltage Directive IEC EN 62040-1; EMC Directive IEC EN 62040-2; classification IEC EN 62040-3; IEC EN 50171)			

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Accessories

Model	Code
Parallel cables kit	FGCKITPARCA1
SNMP Internal Interface	FGCNETAG7
SNMP Internal Interface	FGCNETAG11

Model	Code
ModBus RS485 interface	FGCMODBUS
Dry Contact DB9 interface	FGCEVODSDRY3
Dry Contact 9 PIN interface	FGCEVODSDRY4

High Italian Quality

TECNOManager UPS Management Software

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RoHS COMPLIANT CE

CSS EVO DSP PLUS TT
BATTERY BOX

NEW

Together on

Compliant with regulations EN 50171



Main Specification

- 10-year design life batteries
- Enclosure compliant with EN 60598-1
- Front door for access to battery compartments
- Removable side panels
- Isolator fuse protecting the battery circuit
- Easy maintenance

Specifications

Model	BATTERY BOX PER CSS DSP PLUS TT 10.0													
Code	FBBEP240A2/00	FBBEP240A2/18	FBBEP240A2/24	FBBEP240B2/00	FBBEP240B2/40	FBBEP240B2/60	FBBEP240B2/80	FBBEP240D2/00	FBBEP240D2/65	FBBEP240D2/100	FBBEP240D2/120	FBBEP240C2/00	FBBEP240C2/150	
Dimension (Box) WxHxD	60 x 110 x 60 cm			61 x 140 x 68 cm				61 x 140 x 88 cm				81 x 190 x 98 cm		
Dimension (with packing) WxHxD	73 x 132,5 x 76,5 cm			74 x 162,5 x 84,5 cm				74 x 162,5 x 104,5 cm				94 x 212,5 x 114,5 cm		
Weight	80 Kg	190 kg	240 kg	175kg	420 kg	505 kg	625 Kg	175 kg	560 kg	755kg	785 Kg	285 Kg	1.155 Kg	
Equipped with	Battery cable to connect CSS to Battery Box													
Battery														
Type	Lead acid, sealed, maintenance free, 10-year design life													
Protection														
Battery circuit	Disconnector													
Environmental specification														
Working temperature	From 0 to 55 °C (recommended from 20 to 25 °C)													
Humidity	< 95% without condensation													
Maximum altitude	3000 m													
IP protection	IP20													
Certifications	CE; IEC EN 50171													

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Main Specifications

- 10-year design life batteries
- Enclosure compliant with EN 60598-1
- Front door for access to battery compartments
- Removable side panels
- Isolator fuse protecting the battery circuit
- Easy maintenance

Specifications

Model	BATTERY BOX PER CSS EVO DSP PLUS TT 20.0													
Code	FBBEP384B/00	FBBEP384B/24	FBBEP384B/40	FBBEP384C/00	FBBEP384C/60	FBBEP384C/65	FBBEP384C/80	FBBEP384D/00	FBBEP384D/100	FBBEP384D/120	FBBEP384E/00	FBBEP384E/140	FBBEP384E/200	
Dimension (Box) WxHxD	61 x 140 x 88 cm			81 x 140 x 88 cm				81 x 190 x 98 cm			121 x 190 x 98 cm			
Dimension (with packing) WxHxD	74 x 162,5 x 84,5 cm 380 Kg			94 x 162,5 x 104,5 cm				94 x 212,5 x 114,5 cm			134x 212,5 x 114,5 cm			
Weight	150 Kg	380 kg	770 kg	205 kg	700 kg	820 kg	950 Kg	285 kg	1.250 kg	1.260 kg	350 Kg	1.670 kg	2.240 kg	
Equipped with	Battery cable to connect CSS to Battery Box													
Battery														
Type	Lead acid, sealed, maintenance free, 10-year design life													
Protection														
Battery circuit	Disconnector													
Environmental specification														
Working temperature	From 0 to 55 °C (recommended from 20 to 25 °C)													
Humidity	< 95% without condensation													
Maximum altitude	3000 m													
IP protection	IP20													
Certifications	CE; IEC EN 50171													

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High Italian Quality

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NEW

CENTRAL SUPPLY SYSTEMS

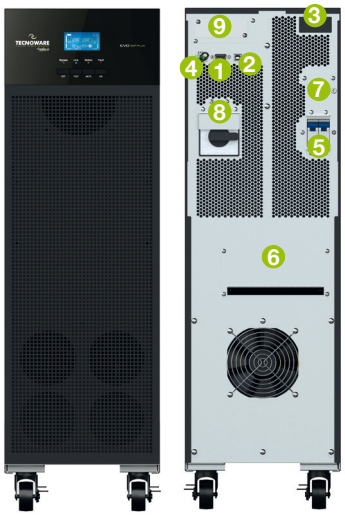
CSS EVO DSP PLUS MM

10 KVA

Together on

Compliant with regulations EN 50171

POWER FACTOR 1



CSS Evo DSP Plus MM 10.0

1 RS232 port 2 USB port 3 Slot for SNMP interface, Dry Contact or MODBUS 4 EPO connector 5 Switch mains input 6 Input/output terminal block
7 Connector for external Battery Box 8 Manual bypass switch for maintenance 9 Interface for parallel connection

Main Specifications

- For emergency lighting systems, fire safety systems, automatic fire protection systems, alarm systems, smoke extraction equipment and carbon monoxide detection.
- Power factor 1
- Continuous overload capability up to 120%
- Full-load start-up
- Protection against battery polarity reversal
- 10-year design life batteries
- Enclosure compliant with EN 60598-1
- Compatible with generators
- Battery charging system controlled by microprocessor
- Extension Back-up time by external Battery box
- Back feed protection
- Static and Manual Bypass
- Expandable up to 2 units in parallel
- CSS Management Software TecnoManager compatible with Windows, Mac OS X, Unix, Linux, etc.

HIGH EFFICENCY 94%

Specifications

Model	CSS EVO DSP PLUS MM 10.0 (COMPLIANT WITH EN 50171)	
Code	FCSSEDP10MM/00	FCSSEDP10MM/D
Nominal power	10 KVA	
Active power	10 KW	
Power rating according to EN 50171	8 KVA - 8 KW	
Power factor	1	
Technology	On-Line Double Conversion transformerless (VFI-SS-111)	
Cooling	Fan cooling	
Audible noise	< 58 dBA to 1 m	
Dimension (UPS) WxHxD	25x82,6x59,2 cm	
Dimension (with packing) WxHxD	38,5x107,1x70 cm	
Weight	112 Kg	142,4 Kg
Input		
Number of phases	1Ph+N	
Nominal voltage	208Vac/220Vac/230Vac/240Vac	
Input voltage range	176Vac-300Vac from 50% to 100% of loading, 110Vac-300Vac up to 50% of loading	
Nominal frequency	50/60 Hz (selectable)	
Input frequency range (On-Line mode)	±7%	
Input power factor	0,99	
Output		
Number of phases	1Ph+N	
Nominal voltage	208Vac/220Vac/230Vac/240Vac	
Voltage Regulation at %100 linear load (On-Line and Battery mode)	±1%	
Voltage THD at rated linear load	<3% (linear load), <5% (non-linear load)	
Crest factor	3:1	
Frequency	50/60 Hz (selectable)	
Frequency stability	±0,1 Hz	
Inverter waveform	Sinusoidale	
Overload capability (Line mode)	110% for 30 minutes, 130% for 5 minutes, >130% for 10 seconds	
Overload capability (Battery mode)	110% for 3 minutes, 130% for 30 secondi, >130% for 10 seconds	
Inverter overload capability referred to rated power according to EN 50171	120% continuous	
Efficiency	94%, calculated in double conversion mode at 100% load to 100% load according to standard 62040-3	
Transfer time	0 ms (On-Line)	
Battery		
Type	Lead acid, sealed, maintenance free	
Installed inside	-	16 elements
Extended autonomy	External Battery Box (optional)	
Environmental specification		
Working temperature	From 0 to 55 °C (recommended from 20 to 25 °C)	
Humidity	< 95% without condensation	
Maximum altitude	3000 m	
IP protection	IP20	
Certifications	CE (Standards: Low Voltage Directive IEC EN 62040-1; EMC Directive IEC EN 62040-2; classification IEC EN 62040-3); IEC EN 50171	

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Accessories

Model	Code
Dry Contact DB9 Interface	FGCEVODSDRY3
Dry Contact 9 PIN Interface	FGCEVODSDRY4
SNMP Internal Interface	FGCNETAG7

Model	Code
SNMP Internal Interface	FGCNETAG11
ModBus RS485 Interface	FGCMODBUS

High Italian Quality

TECNOManager UPS Management Software

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CSS EVO DSP PLUS MM
BATTERY BOX

NEW

Together on

Compliant with regulations
EN 50171



1 Thermal Fuse protecting the battery charger circuit 2 Power Socket for the battery charger circuit 3 Thermal switch for battery circuit
4 Connector for the CSS connection 5 Extra Battery Box connector

Main Specifications

- Internal battery charger on every unit (80% autonomy in 12 hours)
- 10-year design life batteries
- Enclosure compliant with EN 60598-1
- Units can be expanded infinitely
- Batteries with thermal circuit protection
- Easy connection to UPS
- Reduced dimensions
- Easy installation and maintenance

Specifications

Modello	BATTERY BOX FOR CSS EVO DSP PLUS MM 10.0				
Code	**FBBCSS192A/00**	**FBBCSS192A/09**	**FBBCSS192A/18**	**FBBCSS192A/27**	**FBBCSS192A/36**
Dimensin WxHxD	25 x 83,3 x 80 cm				
Dimension (with packing) WxHxD	38 x 105,8 x 96,5 cm				
Weight	49 Kg	107,8 Kg	160,6 kg	126 kg	197,1 Kg
Battery					
Type	Lead acid, sealed, maintenance free, 10-year design life				
Internal battery charger					
Nominal input voltage	230Vac				
Nominal input frequency	50/60Hz				
Nominal charging voltage	219,2Vdc				
Max charging current	Selectable	1,4A	2,8A	1,8A	3,6A
Protection					
Battery charge input	Thermal fuse				
Battery circuit	Magnetothermic switch				
Environmental specification					
Working temperature	From 0 to 55 °C (recommended from 20 to 25 °C)				
Humidity	< 95% without condensation				
Maximum altitude	3000 m				
IP protection	IP20				
Certifications	CE; IEC EN 50171				

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NEW

LINE INTERACTIVE SINEWAVE

UPS EXA PLUS

1.550-3.000-4.500

Together on

Pure Sinewave

SILENT

DESIGNED FOR SILENT ENVIRONMENT



Ups Exa Plus 1.550



Ups Exa Plus 3.000



Ups Exa Plus 4.500







1 Input socket 2 Input Thermal protection 3 IEC320 C13 output sockets with Blackout protection 4 IEC320 C19 output socket with Blackout protection
5 USB port 6 RS232 port 7 Slot for SNMP, Dry Contact or MODBUS interface 8 EPO connector 9 Connector for additional Battery Box

Main Specifications

- For Workstation, PC Game, Personal Computer, Server, Local Area Networks (LAN)
- Designed for silent environment the fan works only in Battery Mode or boost/buck AVR mode)
- Display with Intelligent Backlighting System
- Automatic Voltage Regulation circuit (AVR)
- Intelligent slot for SNMP or Dry Contact card or MODBUS
- Sinewave output
- Battery charging system controlled by microprocessor
- Output sockets with blackout and surge protection
- UPS Management Software TecnoManager compatible with Windows, Mac OS X, Unix, Linux, etc.

Specifications

UPS Model	EXA PLUS 1.550 (NEW)	EXA PLUS 3.000	EXA PLUS 4.500
Code	**FGCEXAPL1553IEC**	**FGCEXAPL3002IEC**	**FGCEXAPL4502IEC**
Max Computer Power*	1.550VA/1.085W	3.000VA/2.100W	4.500VA/3.150W
Technology	Line Interactive with stabilizer		
LCD Display	UPS status, input/output voltage, input/output frequency, load level, battery capacity, warning or fault error code. (the display backlighting is normally off, switch on only after a key is pressed)		
Cooling	Fan cooling (only in battery mode, charging mode or boost/buck AVR mode)		
Audible noise	< 45 dBA to 1 m		
Dimension UPS LxHxP	14,5x22x39,7 cm	14,5x22x45,5 cm	19x31,8x42,1 cm
Dimension (with packing) LxHxP	23x32,5x48 cm	23x32,5x54 cm	32x46x56 cm
Weight	12,1 Kg	19,7 Kg	29 Kg
Input			
Number of phases	1Ph+N		
Nominal voltage	208Vac/220Vac/230Vac/240Vac		
Input voltage range	162-290Vac		
Nominal frequency	50/60 Hz (selectable)		
Output			
Number of phases	1F+N		
Nominal voltage	208Vac/220Vac/230Vac/240Vac (selectable)		
Static voltage Regulation at %100 linear load (On-Line and battery mode)	±1,5%		
Voltage THD at rated linear load	<2% (linear load), <5% (non-linear load)		
Crest factor	3:1		
Frequency	50/60 Hz (selectable)		
Inverter waveform	Sinewave		
Overload capability	< 130%		
Transfer time	2 ms (typical)		
Battery			
Type	Lead acid, sealed, maintenance free		
Backup time (typical)	10-30 min		
Extended autonomy	-		External Battery Box (optional)
Environmental specification			
Working temperature	From 0 to 40 °C (recommended from 20 to 25 °C)		
Humidity	< 95% without condensation		
Maximum altitude	3000 m		
IP protection	IP20		
Certifications	CE (Standards: Low Voltage Directive IEC EN 62040-1; EMC Directive IEC EN 62040-2; classification IEC EN 62040-3)		

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* This UPS is designed and sized for the protection of IT workstations. The power expressed as "Max Computer Power" corresponds to the sum of the Plate Powers, of the Switching Power Supplies present in the IT Stations to be protected. For any use with devices other than IT workstations, it is advisable to seek specific advice from the manufacturer

Accessories

Model	Code
Bypass Box for UPS RT from 1.550 KVA to 4.500 KVA	FGCBYPIEC
Dry Contact DB9 Interface	FGCEVODSDRY3
Dry Contact 9 PIN Interface	FGCEVODSDRY4

Model	Code
SNMP Internal Interface	FGCNETAG7
SNMP Internal Interface	FGCNETAG11
ModBus RS485 Interface	FGCMODBUS

High Italian Quality

TECNOManager UPS Management Software

TECNOWARE

RoHS COMPLIANT CE

UPS EXA PLUS
BATTERY BOX

Together on



1 Connector for the UPS Battery Box connection 2 Extra Battery Box connector 3 Power socket for the battery charger circuit
4 Thermal Fuse protecting the battery charger circuit 5 Thermal switch for battery circuit

Main Specifications

- Internal battery charger on every unit
- Units can be expanded infinitely
- Batteries with thermal circuit protection
- Easy connection to UPS
- Convertible format (Tower or Rack 19")

Specifications

Model	BATTERY BOX FOR EXA PLUS 4.500	
Code	FBBEDP3602RT/09	FBBEDP3602RT/18
Positioning	Into Tower or 19" Rack cabinet (2U) positioning	
Dimension (Box) WxHxD	43,8x8,8x63 cm	
Dimension (with packing) WxHxD	60x24x75 cm	
Weight	30 Kg	43 Kg
Battery		
Type	Lead acid, sealed, maintenance free	
Internal Battery Charger		
Nominal input voltage	230Vac	
Nominal input frequency	50/60Hz	
Nominal charging voltage	82,2Vdc	
Max charging current	1A	
Protection		
Battery charge input	Thermal fuse	
Battery circuit	Magnetothermic switch	
Environmental specification		
Working temperature	From 0 to 55 °C (recommended from 20 to 25 °C)	
Humidity	< 95% without condensation	
Maximum altitude	3000 m	
IP protection	IP20	
Certifications	CE	

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NEW

LINE INTERACTIVE

UPS ERA PLUS RM

1.200-2.100

Together on









Ups Era Plus RM 1.200 - Ups Era Plus RM 2.100

1 On/Off button 2 LCD Display 3 USB port 4 Line protection Telephone/Modem/Lan RJ11/RJ45 5 Output sockets with blackout protection 6 Input fuse 7 Input socket

Main Specifications

- For Small server, Local Area Networks (LAN), Switch, HUB, Firewall, Video Surveillance Systems
- Automatic Voltage Regulation circuit (AVR)
- Output sockets with blackout protection
- USB Port
- Mounting in Rack cabinet 19”
- UPS Management TecnoManager compatible with Windows, Mac OS X, Unix, Linux, etc.

Specifications

UPS Model	ERA PLUS 1.200 RACK MOUNT	NEW ERA PLUS 2.100 RACK MOUNT
Code	**FGCERAPL1202RSCH**	**FGCERAPL2102RSCH**
Max Computer Power*	1.200VA/840W	2.100VA/1.470W
Technology	Line Interactive with stabilizer	
Cooling	Natural	
Audible noise	< 40 dBA to 1 m	
Dimension UPS WxHxD	43,8x8,8x23 cm (2U)	43,8x8,8x30 cm (2U)
Dimension with packing WxHxD	52x19,5x40,5 cm	52x19,5x47,5 cm
Weight	6,5 Kg	9,5 Kg
Input		
Number of phases	1Ph+N	
Nominal voltage	Single-phase 230Vac	
Input voltage range	+20%/-25%	
Nominal frequency	50/60 Hz (automatic selection)	
Input frequency range	+/-5%	
Output		
Number of phases	1Ph+N	
Nominal voltage	Single-phase 230Vac	
Voltage regulation (Line mode)	AVR (Automatic Voltage Regulation)	
Voltage regulation (Battery mode)	+/-5%	
Frequency	50/60 Hz (automatic selection)	
Inverter waveform	Modified sinewave	
Overload capability	< 130%	
Transfer time	2 ms (typical)	
Battery		
Type	Lead acid, sealed, maintenance free	
Backup time (typical)	10-40 min	
Environmental specification		
Working temperature	From 0 to 55 °C (recommended from 20 to 25 °C)	
Humidity	< 95% without condensation	
Maximum altitude	3000 m	
IP protection	IP20	
Certifications	CE (Standards: Low Voltage Directive IEC EN 62040-1; EMC Directive IEC EN 62040-2; classification IEC EN 62040-3)	

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* This UPS is designed and sized for the protection of IT workstations. The power expressed as “Max Computer Power” corresponds to the sum of the Plate Powers, of the Switching Power Supplies present in the IT Stations to be protected. For any use with devices other than IT workstations, it is advisable to seek specific advice from the manufacturer

Available on request with input/output nominal voltage 110Vac or 120Vac and with input plug and output sockets for specific country.

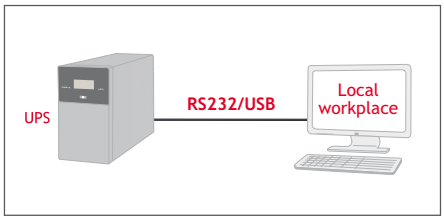
Alta Qualità Italiana

TECNOManager UPS Management Software

TECNOWARE®

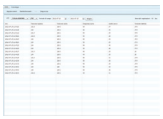
RoHS COMPLIANT CE

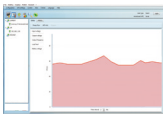
SOFTWARE AND COMUNICATION INTERFACES



The comunication software is downloadable free from **www.tecnoware.com**. Installing it on your computer can be controlled in real time, through the RS232 serial port or USB, the status of the power supply, the operation of the UPS, the charge level and the efficiency of the batteries.
In the event of anomalies in the power supply, the software will automatically proceed to save all the open files and will then close down the operating system and switch off the computer in an ordered manner, before the autonomy runtime of the UPS expires.
In addition, the software monitors, analyses and records a vast range of parameters related to the operation of the UPS. It visualises in real time, in the form of a graph, the input/output voltage, frequency and charge connected to the UPS, the working temperature and the charge level of the batteries.

UPS Management for Windows

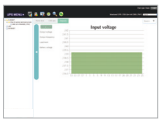

Measures parameters


Graphics


Main window

UPS Management for Mac OS X


Measures parameters


Graphics


Main window

Software Compatibility

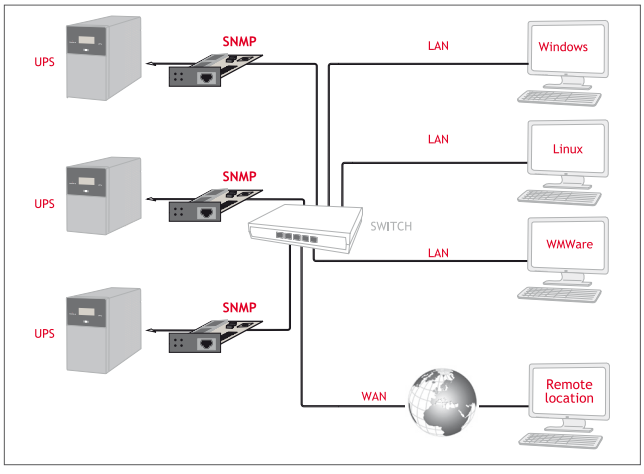
	UPS Management[1]	ATS Monitor[2]
UPS Evo DSP Pro Modular 40-1.200	•	
UPS Evo DSP Pro Modular 90-150	•	
UPS Evo DSP Plus Modular 80-140 208 Vac	•	
UPS Evo DSP Plus Modular 350-700 480 Vac	•	
UPS Evo DSP Plus TT 10-300	•	
UPS Evo DSP Plus TM 10-20	•	
UPS Evo DSP Pro TT 10-100	•	
UPS Evo DSP Pro TM 10-20	•	
UPS Evo DSP Pro TT RT 10-20	•	
UPS Evo DSP Plus TT 30-40 208 Vac	•	
UPS Evo DSP Plus TT 10-20 208 Vac	•	
UPS Evo DSP Plus 6-10	•	
UPS Evo DSP Pro RT 6-10	•	
UPS Evo DSP Plus RT 1.200-2.400-3.600	•	
UPS Evo DSP Plus 1.200-2.400-3.600-5.500	•	
Exa Plus 1.550-3.000-4.500 (VI)	•	
Era Plus RM 1.200-2.100 (VI)	•	
CSS Evo DSP Plus TT 10-20	•	
CSS Evo DSP Plus MM 10	•	
ATS		•

1) Compatible with Windows, Mac OS X, Unix, Linux, etc
2) Compatible with Windows

SNMP Interface

(connection through RJ45 LAN network)

The SNMP (Simple Network Management Protocol) interface enables connection and configuration of the UPS in a LAN computer network. Each SNMP interface provides the necessary software for the monitoring and management of the UPS via LAN, compatible with most Operating Systems.




IP configuration


Main window


NetAgent Web Manager

SNMP Interface Compatibility

	FGCNETAG7	FGCNETAG11	FGCNETAG13
UPS Evo DSP Pro Modular 40-1.200			•
UPS Evo DSP Pro Modular 90-150			•
UPS Evo DSP Plus Modular 80-140 208 Vac	•	•	
UPS Evo DSP Plus Modular 350-700 480 Vac	•	•	
UPS Evo DSP Plus TT 10-300	•	•	
UPS Evo DSP Plus TM 10-20	•	•	
UPS Evo DSP Pro TT 10-100			•
UPS Evo DSP Pro TM 10-20			•
UPS Evo DSP Pro TT RT 10-20			•
UPS Evo DSP Plus TT 30-40 208 Vac	•	•	
UPS Evo DSP Plus TT 10-20 208 Vac	•	•	
UPS Evo DSP Plus 6-10	•	•	
UPS Evo DSP Pro RT 6-10			•
UPS Evo DSP Plus RT 1.200-2.400-3.600	•	•	
UPS Evo DSP Plus 1.200-2.400-3.600-5.500	•	•	
Exa Plus 1.550-3.000-4.500 (VI)	•	•	
CSS Evo DSP Plus TT 10-20	•	•	
CSS Evo DSP Plus MM 10	•	•	
ATS		•	

High Italian Quality

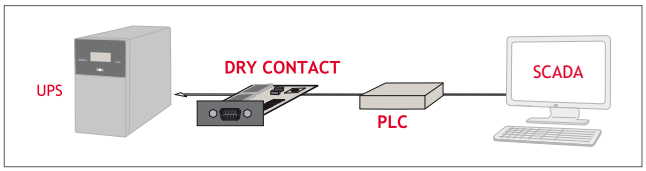
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RoHS COMPLIANT CE

SOFTWARE AND COMUNICATION INTERFACES

Dry Contact board (Dry Contact)

Dry Contact board provides a set of relay contacts (Dry Contacts) able to identify UPS alarm status as battery mode, discharged battery, active bypass or general alarm. It can be used to interface with the systems that manage industrial processes.

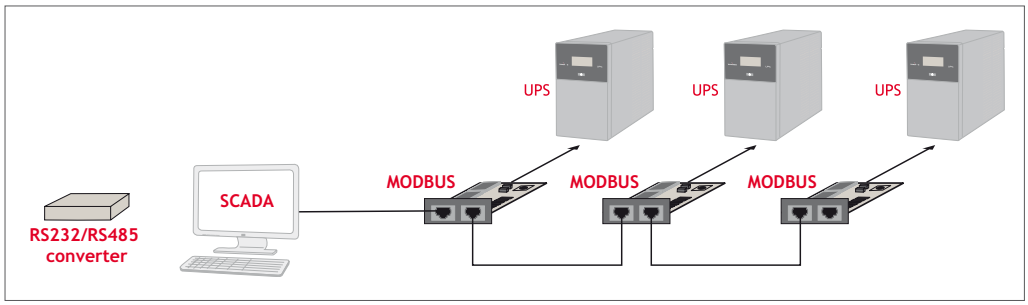


Dry Contact Interface Compatibility

	FGCEVODSDRY3	FGCEVODSDRY4	FGCEVODSDRY5	FGCEVODSDRY6	STANDARD INTERFACE
UPS Evo DSP Pro Modular 40-1.200			•	•	•
UPS Evo DSP Pro Modular 90-150			•	•	•
UPS Evo DSP Plus Modular 80-140 208 Vac	•	•			
UPS Evo DSP Plus Modular 350-700 480 Vac	•	•			
UPS Evo DSP Plus TT 10-300	•	•			
UPS Evo DSP Plus TM 10-20	•	•			
UPS Evo DSP Pro TT 10-100			•	•	•
UPS Evo DSP Pro TM 10-20			•	•	•
UPS Evo DSP Pro TT RT 10-20			•	•	•
UPS Evo DSP Plus TT 30-40 208 Vac	•	•			
UPS Evo DSP Plus TT 10-20 208 Vac	•	•			
UPS Evo DSP Plus 6-10	•	•			
UPS Evo DSP Pro RT 6-10			•	•	
UPS Evo DSP Plus RT 1.200-2.400-3.600	•	•			
UPS Evo DSP Plus 1.200-2.400-3.600-5.500	•	•			
Exa Plus 1.550-3.000-4.500 (VI)	•	•			
CSS Evo DSP Plus TT 10-20	•	•			
CSS Evo DSP Plus MM 10	•	•			
ATS					•

MODBUS RS485 board

The MODBUS RS485 interface allows UPS and PC connection trough MODBUS protocol. It has MODBUS RTU protocol, includes reading and writing registers and provides the RS485/RS232 interface.



MODBUS RS485 Interface Compatibility

	FGCMODBUS	FGCEDPRS485	STANDARD INTERFACE
UPS Evo DSP Pro Modular 40-1.200		•	•
UPS Evo DSP Pro Modular 90-150		•	•
UPS Evo DSP Plus Modular 80-140 208 Vac	•		
UPS Evo DSP Plus Modular 350-700 480 Vac	•		
UPS Evo DSP Plus TT 10-300	•		
UPS Evo DSP Plus TM 10-20	•		
UPS Evo DSP Pro TT 10-100		•	•
UPS Evo DSP Pro TM 10-20		•	•
UPS Evo DSP Pro TT RT 10-20		•	•
UPS Evo DSP Plus TT 30-40 208 Vac	•		
UPS Evo DSP Plus TT 10-20 208 Vac	•		
UPS Evo DSP Plus 6-10	•		
UPS Evo DSP Pro RT 6-10		•	
UPS Evo DSP Plus RT 1.200-2.400-3.600	•		
UPS Evo DSP Plus 1.200-2.400-3.600-5.500	•		
Exa Plus 1.550-3.000-4.500 (VI)	•		
CSS Evo DSP Plus TT 10-20	•		
CSS Evo DSP Plus MM 10	•		

POWER BATTERY
12V 5AH-7.2AH-9AH-54W



Power Battery 12V 5Ah



Power Battery 12V 7.2Ah



Power Battery 12V 9Ah



Power Battery 12V 9Ah Long Life



Power Battery 12V 54W Long Life

Main Specifications

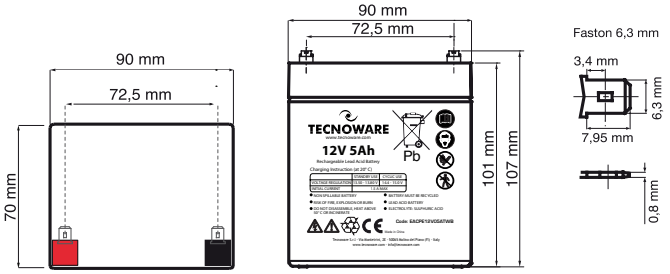
- UPS, emergency power systems, data processing centers, alarm and security systems
- Sealed lead acid batteries
- No maintenance
- 12Vdc monoblock
- Batteries designed for regular, long and deep, discharge
- High cyclical performance
- Easy installation
- No hazardous for transport by road/rail/sea/air
- Individually packaged

SINGLE PACKAGING

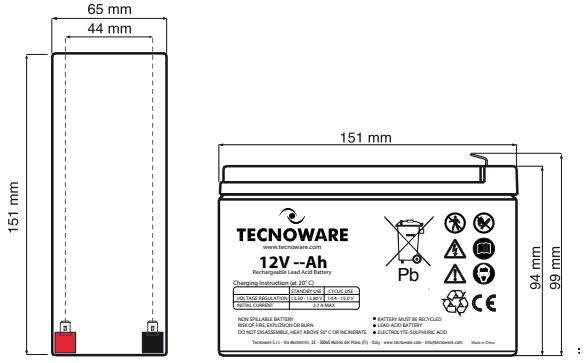
Specifications

Model	Power Battery 12V 5Ah-7.2Ah-9Ah-54W				
Code	EACPE12V05ATWB	EACPE12V7A2TWP	EACPE12V09ATWP	EACPE12V09ATWL	EACPE12V54WTWL
Box	Single packaging				
Nominal voltage	12Vdc				
Capacity	5Ah	7.2Ah	9Ah	9Ah	54W
Dimension WxHxD	90 x 101 x 70 cm	151x 94 x 65 cm			
Weight	1,65 Kg	2,22 Kg	2,65 Kg	2,87 Kg	2,87 Kg
Terminal type	Faston 6,35mm	Faston 6,35mm	Faston 6,35mm	Faston 6,35mm	Faston 6,35mm
Internal resistance	Approx 26 mΩ full charge	Approx 28 mΩ full charge	Approx 19 mΩ full charge	Approx 13 mΩ full charge	Approx 12,3 mΩ full charge
Lifespan	5 years			10 years (long life)	10 years (long life)
Container material	ABS				
Electrical Specifications					
Stand-by voltage	13,50-13,80Vdc a 25°C				
Cycle voltage	14,4-15,0Vdc a 25°C				
Initial current charging	1,25A Max	1,8A Max	2,7A Max	2,9A Max	3,7A Max
Maximum charging current	1,5A Max		2,6A Max	2,8A Max	3,5A Max
Charging time	6-8 hours				
Maximum discharge current	75A (5s)	105A (5s)	135A (5s)	140A (5s)	142 A (5s)
Environmental specification					
Working temperature	Discharge: from -15 to 50°C, Charge: from 0 to 40°C, Storage: from -15 to 40°C				
Nominal working temperature	25±3°C				
Capacity affected by temperature	40°C: 103%, 25°C: 100%, 0°C: 86%				
Certifications	CE (Regulation 1542/2023 EU)				

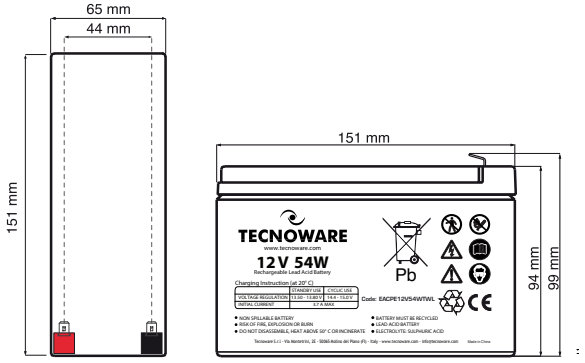
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Power Battery 12V 5Ah



Power Battery 12V 7.2Ah-9Ah-9Ah Long Life



Power Battery 12V 54W

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RoHS COMPLIANT CE

AUTOMATIC TRANSFER SWITCH
16A-30A



1 Input switch 2 Fuse breaker 3 USB Port 4 RS-232 Port 5 Source preference selector 6 Priority setting LED 7 Input source availability LED
8 Output source LED 9 Fault LED 10 Mute button 11 Slot for interface SNMP 12 Status Contact port 13 Output sockets (IEC 320 C13) 14 Output sockets (IEC 320 C19)
15 Input connectors (IEC 16A) 16 Input Terminal Block 17 Output Terminal Block

Main Specifications

- Powered by two separately independent power sources
- Dual power supply for redundancy
- Preferred source selection on front panel
- 19" rack design (1U)
- USB and RS232 communications ports
- UPS Management Software ATS Monitor compatible with Windows

Specifications

ATS Model	AUTOMATIC TRANSFER SWITCH 16A	AUTOMATIC TRANSFER SWITCH 30A
Code	FGCATS1601MM	FGCATS3001MM
Dimension (WxHxD)	48,3 (19") x 4,4 (1U) x 33 cm	
Weight	5 Kg	6 Kg
Communication port	USB/RS-232	
Input		
Input Voltage	230 Vac	
Input Voltage range	180 Vac - 258 Vac	
Nominal frequency	50/60 Hz	
Maximum Input Current	16A	30A
Input connectors	2 x IEC 320 C20	2 x Terminal Block
Output		
Nominal voltage	230 Vac	
Maximum Output Current	10 A for IEC 320 C13 - 16 A for IEC 320 C19	30 A for Terminal Block - 10 A for IEC 320 C13 - 16 A for IEC 320 C19
Output connectors	8 x IEC 320 C13 - 1 x IEC 320 C19	1 x Terminal Block - 4 x IEC 320 C13 - 1 x IEC 320 C19
Transfer time	9-12 ms (typical), 16 ms max	
Environmental specification		
Working temperature	From -5 to 45 °C	
Humidity	< 95% without condensation	
Certifications	CE	

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Accessories

Model	Code
Internal SNMP for ATS	FGCNETAG11

High Italian Quality

ATS Monitor
ATS Management Software

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RoHS COMPLIANT CE

SINGLE-PHASE STABILIZERS WITH ELECTRONIC CONTROL

4.5-20

NEW

Together on



Single-Phase 4.5KVA
Single-Phase 7.5KVA



Single-Phase 10KVA
Single-Phase 20KVA



Multifunction LCD Touch Display



Multifunction LED Display

1 Multifunction Display 2 Input voltage switch 3 Bypass switch 4 Input/output terminal box

Main Specifications

- Domestic users, Lighting Systems, Industrial Processes, Communications, Electromedical equipment
- High stabilization speed
- High Efficiency
- No brownouts stabilization
- Do not introduce harmonic distortion
- Management changes from 0 to 100% load
- Multifunction display with visualization and setting operating parameters
- Display language setting: Italian, English and Spanish (only for 10KVA-20KVA)

Specifications

Model	SERVO-ASSISTED SINGLE-PHASE STABILIZERS WITH MICROPROCESSOR ELECTRONIC CONTROL 4.5-20			
Code	**FSTESM4K5M2**	**FSTESM7K5M2**	**FSTESM10KM2**	**FSTESM20KM2**
Nominal Power	4.5 KVA	7.5 KVA	10 KVA	20 KVA
Active Power	3,6 KW	6 KW	8 KW	16 KW
Power Factor	0,8			
Technology	Servo-Assisted with Microprocessor Electronic Control			
Dimension WxHxD	25x29x31 cm	30x35x42 cm	32x55x42 cm	
Dimension (with packing) WxHxD	32x42x36 cm	37x46x49 cm	40x75x50 cm	
Weight	13 Kg	16 Kg	36 Kg	50 Kg
Input				
Number of phases	1Ph+N			
Nominal voltage	230Vac		220/230/240Vac (selectable)	
Input voltage range	160Vac-270Vac			
Nominal frequency	50/60 Hz			
Output				
Number of phases	1Ph+N			
Nominal voltage	230Vac		220/230/240Vac (selectable)	
Voltage stability	±2%			
Voltage regulation	12 mSec/Volt			
Performance	>97%			
Load variation	From 0% to 100%			
Overload	150%			
Nominal frequency	50/60 Hz			
Environmental specification				
Working temperature	From 0 to 55 °C			
Humidity	< 95% without condensation			
Maximum altitude	3000 m			
IP protection	IP20			
Certifications	CE			

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RoHS COMPLIANT CE

THREE-PHASE STABILIZERS WITH ELECTRONIC CONTROL

15-120

Together on



Three-Phase 15KVA
Three-Phase 25KVA
Three-Phase 50KVA



Three-Phase 100KVA
Three-Phase 120KVA



Multifunction LCD Touch Display

1 Multifunction display 2 Input voltage switch 3 Bypass switch 4 Input/output terminal box

Main Specifications

- Domestic users, Lighting Systems, Industrial Processes, Communications, Electromedical equipment
- High stabilization speed
- High Efficiency
- No brownouts stabilization
- Do not introduce harmonic distortion
- Management changes from 0 to 100% load
- Multifunction display with visualization and setting the operating parameters
- Display language setting: Italian, English and Spanish

Specifications

Model	SERVO-ASSISTED THREE-PHASE STABILIZERS WITH MICROPROCESSOR ELECTRONIC CONTROL 15-120				
Code	**FSTESM15KT2**	**FSTESM25KT2**	**FSTESM50KT2**	**FSTESM100KT2**	**FSTESM120KT2**
Nominal Power	15 KVA	25 KVA	50 KVA	100 KVA	120 KVA
Active Power	12 KW	20 KW	40 KW	80 KW	96 KW
Power Factor	0,8				
Technology	Servo-assisted with Microprocessor Electronic Control				
Dimension WxHxD	28x60x35cm	32x70x52 cm	42x96x64 cm	42x107x65 cm	
Dimension (with packing) WxHxD	38x85x42 cm	40x82x60 cm	50x111x72 cm	50x119x73 cm	
Weight	92 Kg	107 Kg	157 Kg	214 Kg	230 Kg
Input					
Number of phases	3Ph+N				
Nominal voltage	380/400/415Vac (selectable)				
Input voltage range	260Vac-470Vac				
Nominal frequency	50/60 Hz				
Phase imbalance	100%				
Output					
Number of phases	3Ph+N				
Nominal voltage	380/400/415Vac (selectable)				
Voltage stability	±2%				
Voltage regulation	12 mSec/Volt				
Performance	>97%				
Load variation	From 0% to 100%				
Overload	150%				
Nominal frequency	50/60 Hz				
Environmental specification					
Working temperature	From 0 to 55 °C				
Humidity	< 95% without condensation				
Maximum altitude	3000 m				
IP protection	IP20				
Certifications	CE				

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NEW

BIDIRECTIONAL SINGLE-PHASE STABILIZERS WITH ELECTRONIC CONTROL

7.5-10

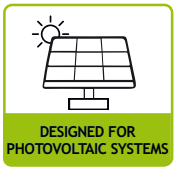
Together on



Single-Phase 7.5KVA



Single-Phase 10KVA





Multifunction LCD Touch Display



Multifunction LED Display

1 Multifunction Display 2 Input voltage switch 3 Bypass switch 4 Input/output terminal box

Main Specifications

- Bidirectional, designed for Photovoltaic Systems with voltage stabilization on both mains input and output side
- For utenze domestic users, Lighting Systems
- High stabilization speed
- High Efficiency
- No brownouts stabilization
- Do not introduce harmonic distortion
- Management changes from 0 to 100% load
- Multifunction display with visualization and setting operating parameters
- Display language setting: Italian, English and Spanish (only for 10KVA)

Specifications

Model	SERVO-ASSISTED BIDIRECTIONAL SINGLE-PHASE STABILIZERS WITH MICROPROCESSOR ELECTRONIC CONTROL 7.5-10	
Code	**FSTESM7K5MBD2**	**FSTESM10KMBD2**
Nominal Power	7.5 KVA	10 KVA
Active Power	6 KW	8 KW
Power Factor	0,8	
Technology	Servo-Assisted bidirectional with Microprocessor Electronic Control	
Dimension WxHxD	30x35x42 cm	32x55x42 cm
Dimension (with packing) WxHxD	37x46x49 cm	40x75x50 cm
Weight	16 Kg	36 Kg
Input		
Number of phases	1Ph+N	
Nominal voltage	230Vac	220/230/240Vac (selectable)
Input voltage range	160Vac-270Vac	
Nominal frequency	50/60 Hz	
Output		
Number of phases	1Ph+N	
Nominal voltage	230Vac	220/230/240Vac (selectable)
Voltage stability	±3%	
Voltage regulation	12 mSec/Volt	
Performance	>97%	
Load variation	From 0% to 100%	
Overload	150%	
Nominal frequency	50/60 Hz	
Environmental specification		
Working temperature	From 0 to 55 °C	
Humidity	< 95% without condensation	
Maximum altitude	3000 m	
IP protection	IP20	
Certifications	CE	

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GASOLINE GENERATOR
3.200-4.200-7.800-9.200

EURO 5 GASOLINE ENGINE

AVR
AUTOMATIC VOLTAGE REGULATOR


Gasoline Generator 3.200 VA Recoil Starting System


Gasoline Generator 4.200 VA Electrical/Automatic Starting System


Gasoline Generator 7.800 VA Electrical Starting System


Gasoline Generator 9.200 VA Electrical/Automatic Starting System

Main Specifications

- OHV 4-stroke engine
- Metal fuel tank for 10 hours at 50% load
- Low oil alert
- AVR and overload protection
- Ready for External Automatic Transfer Switch (only r Gasoline Generator 4.200 VA and Gasoline Generator 9.200 VA)
- Battery Charger (only for electrical model)
- Dual AC and DC 12V output
- Low operation noise

H-Greengine
Hi-Power engine with a low consumption

Specifications

Model	GASOLINE GENERATOR 3.200-4.200-7.800-9.200			
Code	**FGE3200M**	**FGE4200EA**	**FGE7800E**	**FGE9200EA**
Starting System	Manual	Electrical/Automatic	Electrical	Electrical/Automatic
Max reactive power	3.200 VA	4.200 VA	7.800 VA	9.200 VA
Max active power	2.200 W	3.000 VA	5.500 W	6.500 W
Power factor	0,7			
Rated power	2.000 W	2.800 W	5.000 W	6.000 W
Phase	Single Phase			
Voltage regulator	AVR			
Rated voltage	230 Vac			
Rated frequency	50 Hz			
DC output	12Vdc - 8,3A			
AC output sockets	2 Schuko 16A		2 IEC 309 16A	1 IEC 309 32A
Ready for external Gasoline Generator ATS	-	Yes - Code FGEATS9200 (optional)	-	Yes Code FGEATS9200 (optional)
Insulated grade	F			
Fuel tank capacity	15L		25L	
Fuel	Unleaded gasoline			
Noise level at 7 m	68-72 dBA		74-78 dBA	
Hand rails and wheels	-		Included	
Weight	41,5 Kg	48 Kg	82 Kg	85 Kg
Dimension WxHxD	43x42x63 cm		52,5x54,5x69,5 cm	
Dimension (with packing) WxHxD	44x44x64 cm		53,5x56,5x70,5 cm	
Certifications	CE			
Engine				
Model	TW168F	TW170F	TW188F	TW190F
Type	Single-cylinder forcedair-cooled OHV 4-strok			
Displacement	196 cc	210 cc	389 cc	420 cc
Power	6,5 HP	7 HP	13 HP	15 HP
Rated speed	3000 RPM			
Ignition system	TCI (transistor ignition)			
Lubrification oil **(not included)**	0,6 L SAE 10W-30		1,1 L SAE 10W-30	
Air filter type	A secco			
Starter battery	-	12V 7,2 Ah	12V 17 Ah	
European emission standards	Euro 5			

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Accessories

Model	Code
External Gasoline Generator ATS for Generator FGE4200EA and FGE9200EA	FGEATS9200

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RoHS COMPLIANT CE

GASOLINE GENERATOR ATS
45A



Gasolin e Generator ATS checks the AC mains and charges the Generator battery. In the event of a blackout, it automatically starts the Generator engine and supplies the load with Generator power. When the AC mains returns it supplies the load with AC mains, charges the Generator battery and shutdown (with delay) the Generator engine.

1 AC mains indicator 2 Generator ON indicator 3 Automatic Starting System active indicator 4 Failure indicator 5 Manual/Automatic Starting System selector
6 Generator Interface connector 7 Terminal Block for AC Power from Generator 8 Terminal Block for AC Power from AC mains
9 Terminal Block for AC Power to load 10 Metal hooks for wall mounting

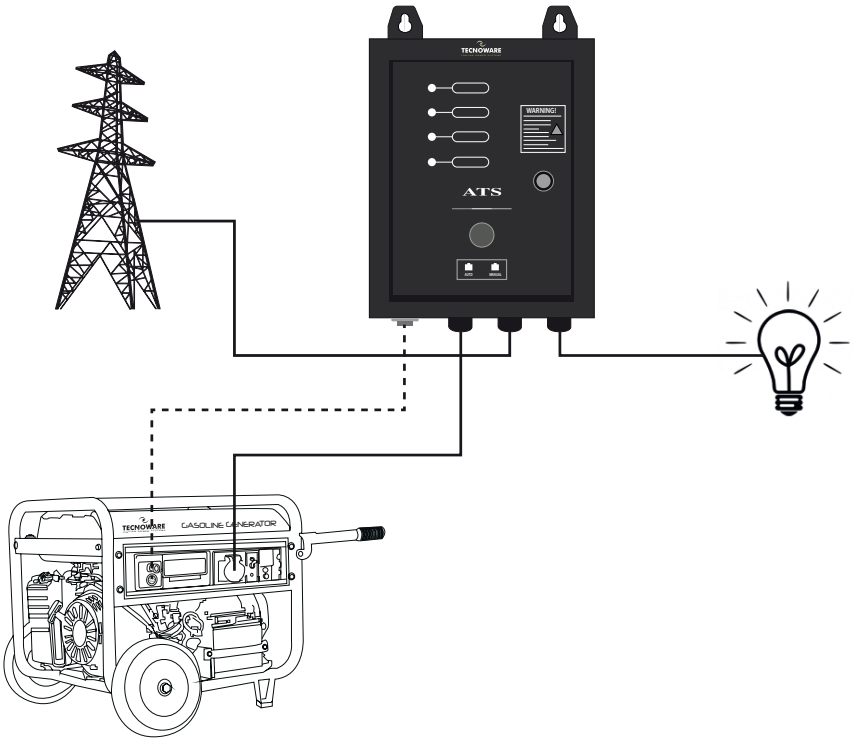
Main Specifications

- Metal case with hooks for wall mounting
- Metal door with key for Terminal Block access
- Generator Automatic Starting System
- Battery charger for Generator battery
- Selector for Manual/Automatic Starting
- 2m ATS/Generator connecting cable

Specifications

ATS Model	GASOLINE GENERATOR ATS 45A
Code	FGEATS9200
Dimension (WxHxD)	25x32x14 cm
Weight	4 Kg
Communication interface	Interface connector with Generator (2m cable, included)
Nominal Voltage	230 Vac
Nominal frequency	50 Hz
Maximum Current	45A
Input/Output connection	Terminal Block
Environmental specification	
Working temperature	From -5 to 45 °C
Humidity	< 95% without condensation
Certifications	CE

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ATA SOLAR INVERTER

1200 - 3500 - 5500 VA

POWER FACTOR 1

SOLAR INPUT MPPT



ATA 1.200VA



ATA 3.500VA - ATA 5.500VA

Main Specifications

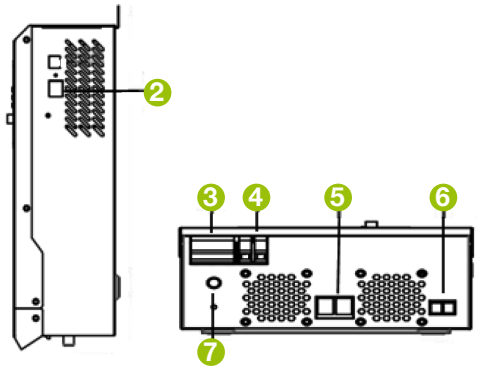
- Pure sinewave MPPT solar inverter
- Power Factor 1
- High PV Input Voltage Range
- Battery equalization function to optimize battery performance and extend lifecycle
- Selectable high power charging current
- Configurable AC/Solar input priority
- Compatible with generator
- Auto restart while AC is recovering
- Cold start function

Specifications

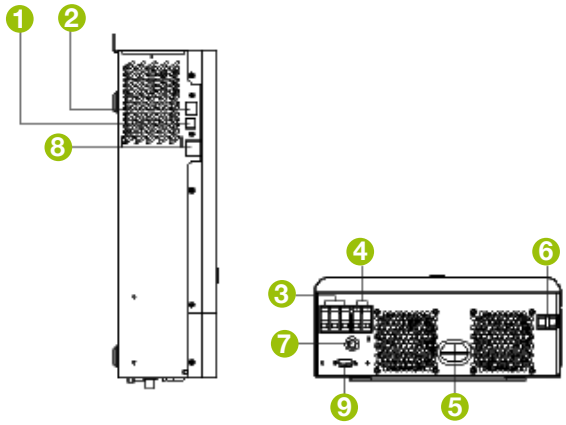
Model	ATA Solar Inverter 1.200	ATA Solar Inverter 3.500	ATA Solar Inverter 5.500
Code	FINVATA1202	FINVATA3502	FINVATA5502
Rated Power	1.200VA / 1.200W	3.500VA / 3.500W	5.500VA / 5.500W
Input			
Voltage	230 VAC		
Selectable Voltage Range	170-280 VAC (For Personal Computers) ; 90-280 VAC (For Home Appliances)		
Frequency Range	50 Hz/60 Hz (Auto sensing)		
Output			
ACVoltage Regulation(Batt. Mode)	230VAC ‡ 5%		
Surge Power	2.000VA	7.000VA	11.000VA
Efficiency (Peak)	90% ~ 93%	up to 93.5%	
Transfer Time	10 ms (For Personal Computers) ; 20 ms (For Home Appliances)		
Waveform	Pure sinewave		
Battery			
Battery Voltage	12 Vdc	24 Vdc	48 Vdc
Floating Charge Voltage	13.5 Vdc	27 Vdc	54 Vdc
Overcharge Protection	16 Vdc	33 Vdc	63 Vdc
Solar Charger & AC Charger			
Solar Charger Type	MPPT		
Maximum PV Array Open Circuit Voltage	102 Vdc	500 Vdc	
Maximum PV Array Power	700 W	5500 W	
MPPT Range @ Operating Voltage	80~170 Vdc	120~450 Vdc	
Maximum Solar Charge Current	50 A	100 A	
Maximum AC Charge Current	20 A	80 A	
Maximum Charge Current	60 A	100 A	
Physical			
Dimension, D x W x H (mm)	103x225x320	115x300x400	
Net Weight	4.4 Kg	8.5 Kg	9 Kg
Communication Interface	RS232	USB/RS232/Dry Contact	
Environment			
Humidity	5% to 95% Relative Humidity (Non-condensing)		
Operating Temperature	-10°C to 50°C		
Storage Temperature	-15°C to 60°C		

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ATA SOLAR INVERTER
1200 - 3500 - 5500 VA



ATA 1.200VA



ATA 3.500VA - ATA 5.500VA

1 USB communication port 2 RS-232 communication port 3 AC input 4 AC output 5 Battery input 6 PV input 7 Circuit breaker 8 Generator dry contact 9 WIFI port

Hybrid Operation

With mains and photovoltaic power.



With mains power.



With photovoltaic power.



With battery power.



High Italian Quality

TECNOWARE®

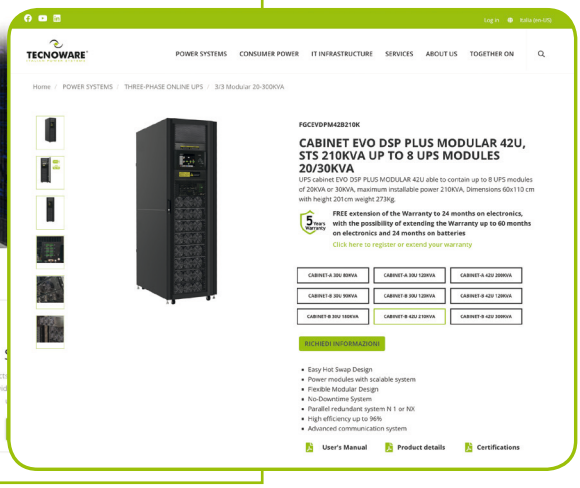
RoHS COMPLIANT CE

CORPORATE SITE

WWW.TECNOWARE.COM

User Experience 4.0





Available in 10 languages, geolocation system and customer/user recognition, personalized browsing experience, dedicated commercial offer.

- E-Commerce User Oriented
- RMA Management Area
- Product Catalog with detailed technical data sheets
- Product Registration Area
- Tecnoware software download area

User friendly web site: multiple touch points, AI process, green oriented



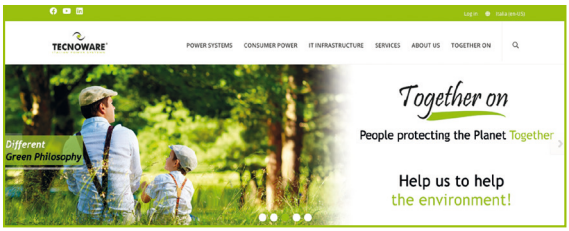




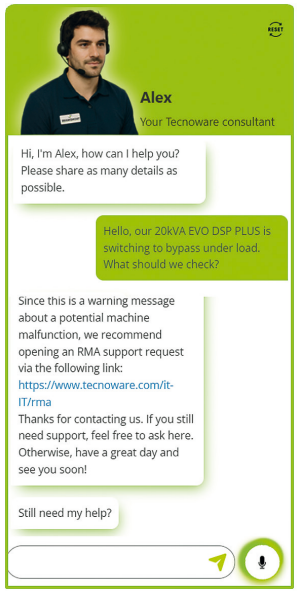
Together on

We turn on our focus to efficiency and sustainability

The Together On products are designed and developed with the aim of minimizing environmental impact as much as possible, improving energy efficiency, and investing in the sustainability of the production process.



Alex,
your personal consultant



TECNOWARE

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ITALIAN POWER SYSTEMS

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MANAGEMENT SYSTEM CERTIFICATION
DNV
ISO 9001 · ISO 14001