

UPS EVO DSP PLUS MM

1.0-1.5-3.0-4.5

Use

For Local Area Network (LAN),
Electromedical equipment,
Industrial processes, Virtual server,
Pellet stove, Home heating system

Protection

- Blackout
- Dynamic Undervoltage
- Dynamic Overvoltage
- Undervoltage
- Overvoltage
- Lightning (UPS + surge discharger upstream)
- Voltage Surge
- Frequency Variation
- Voltage Distortion
- Voltage Harmonic

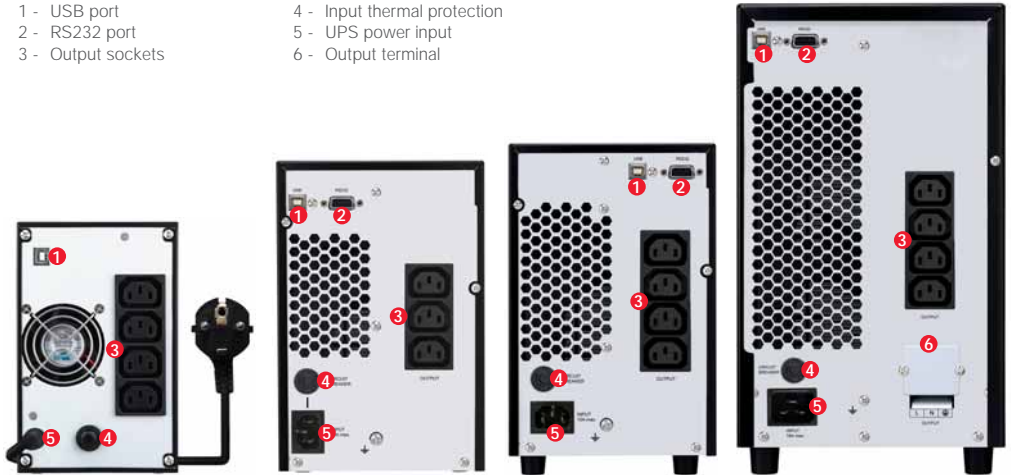
Main specifications

- On-Line Double Conversion Technology without transformer (VFI-SS-111)
- Rectifier realized by IGBT technology
- Active PFC Circuit (0.99)
- Wide input voltage tolerance
- Compatible with Generators
- Output voltage and frequency can be regulated from the front panel
- Battery charging system controlled by microprocessor
- Static Bypass
- RS232 (only for Evo Dsp Plus MM 1.5, 3.0 e 4.5) and USB communication port
- UPS Management Software TecnoManager compatible with Windows, Mac OS X (up to version 10.8), Unix, Linux, ecc
- High efficiency and low operating cost
- Easy installation and maintenance



Details

- | | |
|--------------------|------------------------------|
| 1 - USB port | 4 - Input thermal protection |
| 2 - RS232 port | 5 - UPS power input |
| 3 - Output sockets | 6 - Output terminal |



UPS Evo Dsp Plus MM 1.0

UPS Evo Dsp Plus MM 1.5

UPS Evo Dsp Plus MM 3.0

UPS Evo Dsp Plus MM 4.5

HE HIGH EFFICIENCY
UPS high efficiency, calculated mode double conversion 100% of load, according to standard 62040-3:2011

DSP

The UPS EVO DSP PLUS are controlled by Digital Signal Processor (DSP) which optimizes the machine operation in any conditions permitting a complete and easy programming.



The UPS range EVO DSP PLUS is designed in accordance with the highest environment protection standards. The high efficiency and low harmonic inputs guarantee the uppermost respect for the environment.

UPS EVO DSP PLUS MM

1.0-1.5-3.0-4.5

ON LINE MM

Specifications

Modello UPS	EVO DSP PLUS MM 1.0	EVO DSP PLUS MM 1.5	EVO DSP PLUS MM 3.0	EVO DSP PLUS MM 4.5
Code	FGCEVDP1000MM	FGCEVDP1500MM	FGCEVDP3000MM	FGCEVDP4500MM
Nominal Power	1.000 VA	1.500 VA	3.000 VA	4.500 VA
Active power	700 W	1.050W	2.100 W	3.150 W
Power factor	0,7			
Technology	On-Line Double Conversion transformerless (VFI-SS-111)			
Cooling	Fan cooling			
Audible noise	< 45 dBA at 1 m			
Dimension (UPS) WxHxD	10x14,5x30 cm	14,5x22x28,2 cm	14,5x22x39,7 cm	19x31,8x42,1 cm
Dimension (with packing) WxHxD	18,5x25,5x38,8 cm	23x33x37 cm	23x33x48 cm	33x46x56 cm
Weight	5 Kg	10 Kg	17 Kg	27 Kg
Equipped with	1 fixed power cable with Schuko plug 2 output cables (IEC type)		1 power cable with Schuko plug 2 output cables (IEC type)	
Input				
Number of phases	1Ph+N			
Nominal voltage	208Vac/220Vac/230Vac/240Vac			
Input voltage range	160Vac-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			
Static voltage Regulation at %100 linear load (On-Line and battery mode)	±2%			
Voltage THD at rated linear load	<3% (linear load), <6% (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 mode to 100% load according to standard 62040-3: 2011			
Transfer time	0 ms (On-Line)			
Outputs	4 (IEC 320 C13 type)	3 (IEC 320 C13 type)	4 (IEC 320 C13 type)	4 (IEC 320 C13 type) + Output terminal
Bypass				
Number of phases	1Ph+N			
Nominal voltage	208Vac/220Vac/230Vac/240Vac			
Voltage range	Low threshold 170Vac-220Vac (selectable) - High threshold 230Vac-264Vac (selectable)			
Battery				
Type	Lead acid, sealed, maintenance free			
Batteries number	1 (internal)	2 (internal)	4 (internal)	6 (internal)
Battery charge time (typical)	6-8 hours			
Nominal battery voltage	12Vdc	24Vdc	48Vdc	72Vdc
Battery specification	12Vdc - 7,2Ah		12Vdc - 9Ah	
Backup time (Typical)	10 min			
Interfacing				
Interface (communication port)	USB	RS232 and USB		
Software	TecnoManager, downloadable free from www.tecnoware.com (compatible with WINDOWS, UNIX, LINUX, Mac OS X up to version 10.8 compatible, ecc.)			
SNMP interface	-	SNMP external module (compatible with WINDOWS, UNIX, LINUX, ecc.) - optional		
Environmental specification				
Storage temperature	From -15 to 40 °C (for Battery Box with battery inside, see "Storage of batteries in UPS and Battery Box" graphic)			
Working temperature	From 0 to 40 °C (recommended from 20 to 25 °C, for a correct battery use see "Battery life in service" graphic)			
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)			
Warranty				
Standard	24 months electronic parts and 24 months batteries - After registration on www.tecnoware.com			
Extensions	Optional			

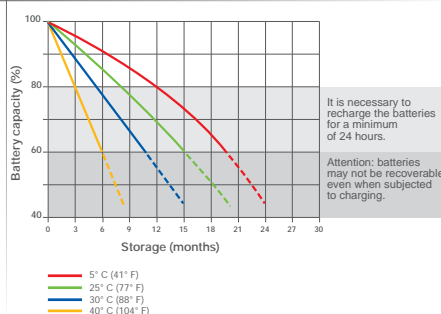
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Available on request with input/output nominal voltage 110Vac or 120Vac and with input plug and output sockets for specific country.

Accessories

Model	Code
External SNMP for Evo Dsp MM and Evo Dsp Plus MM	FGCNETAG2

UPS (with batteries) storage



UPS Battery life in operating conditions

The higher is the temperature of the environment in which the UPS works, the shorter is the battery life.

