ON LINE MM

UPS EVO DSP PLUS MM

1.2 - 2.4 - 3.6

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

- Multifunctional LCD Display
- 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
- USB and RS232 communication port
- Intelligent slot for SNMP or Dry Contact card
- 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

HIGH EFFICENCY 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.

ECO POWER SYSTEM

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.

HIGH EFFICENCY

INDUSTRY 4.0 READY

Alta Qualità Italiana

TECNOManager UPS Management Software

REFURBISHED COMPONENTS

RoHS COMPLIANT

CE

Details

1 - USB port
2 - RS232 port
3 - Interface slot for SNMP or Dry Contact
4 - Output sockets
5 - Input thermal protection
6 - Input socket
7 - Output terminal

UPS Evo Dsp Plus MM 1.2 UPS Evo Dsp Plus MM 2.4 UPS Evo Dsp Plus MM 3.6

Multifuction LCD display

TECNOWARE

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ON LINE MM

Specifications

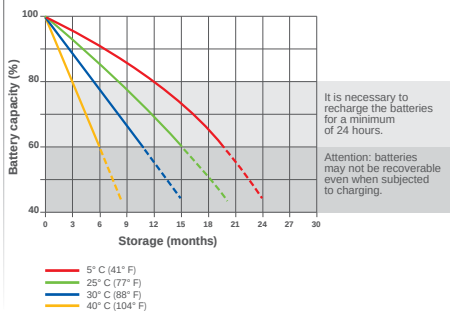
UPS Model	EVO DSP PLUS MM 1.2	EVO DSP PLUS MM 2.4	EVO DSP PLUS MM 3.6
Code	**FGCEVDP1203MM**	**FGCEVDP2403MM**	**FGCEVDP3603MM**
Nominal Power	1.200 VA	2.400 VA	3.600 VA
Active power	840 W	1.680 W	2.520 W
Power factor	0,7		
Technology	On-Line Double Conversion transformerless (VFI-SS-111)		
Cooling	Fan cooling		
Audible noise	< 45 dBA at 1 m		
Dimension (UPS) WxHxD	14,5x22x28,2 cm	14,5x22x39,7 cm	19x31,8x42,1 cm
Dimension (with packing) WxHxD	23x33x37 cm	23x33x48 cm	33x46x56 cm
Weight	10 Kg	17 Kg	27 Kg
Equipped with	1 power cable 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)		
Outlets	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	2 (internal)	4 (internal)	6 (internal)
Battery charge time (typical)	6-8 hours		
Nominal battery voltage	24Vdc	48Vdc	72Vdc
Battery specification	12Vdc - 9Ah		
Backup time (Typical)	10 min		
Interfacing			
Interface (communication port)	RS232 and USB		
Dry contact interface	Yes (optional)		
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 internal module (compatible with WINDOWS, UNIX, LINUX, ecc.) - optional		
Phone/modem line protection	RJ11/RJ45 plug		
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		

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

Accessories

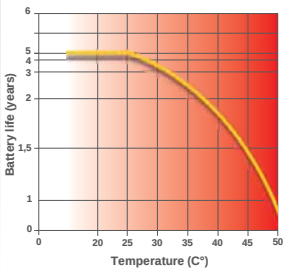
Model	Code
Dry Contact for Evo Dsp MM e Evo Dsp Plus MM	FGCEVODSDRY3
SNMP for Evo Dsp MM e Evo Dsp Plus MM	FGCNETAG7

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.



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