

**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 (slot card)
- USB and RS232 communication port
- Intelligent slot for SNMP or Dry Contact card (in place of USB and RS232)
- UPS Management Software TecnoManager compatible with Windows, Mac OS X (up to version 10.8), Unix, Linux, ecc
- High efficiency and low operating cost

**HE** 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.



**Details**



- 1 - USB port
- 2 - RS232 port
- 3 - Interface slot for SNMP or Dry Contact (in place of USB and RS232)
- 4 - Output sockets
- 5 - Output thermal protection
- 6 - Input socket
- 7 - Output terminals
- 8 - Switch mains input
- 9 - EPO Connector
- 10 - Terminal Input/Output



Multifunction LCD display

#### Specifications

UPS Model	EVO DSP PLUS MM 6.8 HE
Code	<b>FGCEVDP6803MM</b>
Nominal Power	6.800 VA
Active Power	4.800 W
Power factor	0,7
Technology	On-Line Double Conversion transformerless (VFI-SS-111)
Cooling	Fan cooling
Audible noise	< 48 dBA to 1 m
Dimension (UPS) WxHxD	19x57,3x36,9 cm
Dimension (with packing) WxHxD	33x83x50,5 cm
Weight	46 Kg
Equipped with	Serial cable and TecnoManager Software
<b>Input</b>	
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
<b>Output</b>	
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 at 100% load according to standard 62040-3: 2011
Transfer time	0 ms (On-Line)
Output connection	Terminal block
<b>Bypass</b>	
Number of phases	1Ph+N
Nominal voltage	208Vac/220Vac/230Vac/240Vac
Voltage range	Low threshold 170Vac-220Vac (selectable) - High threshold 230Vac-264Vac (selectable)
<b>Battery</b>	
Type	Lead acid, sealed, maintenance free
Batteries number	12 (internal)
Battery charge time (typical)	6-8 hours
Nominal battery voltage	144Vdc
Battery specification	12Vdc - 9Ah
Backup time (Typical)	10 min
<b>Interfacing</b>	
Interface (communication port)	RS232 and USB (slot card)
Dry contact interface	Yes (optional - in place of USB and RS232)
Software	TecnoManager, downloadable free from <a href="http://www.tecnoware.com">www.tecnoware.com</a> (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
<b>Environmental specification</b>	
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)
<b>Warranty</b>	
Standard	12 months electronic parts - After registration on <a href="http://www.tecnoware.com">www.tecnoware.com</a>
Extensions	Optional

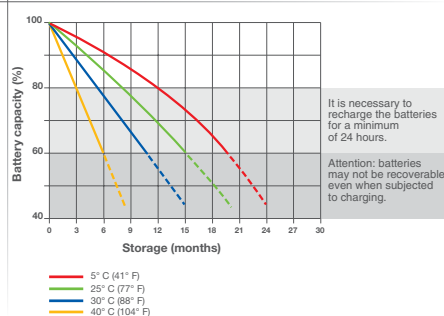
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Available on request with input/output nominal voltage 110Vac or 120Vac and with input plug and output sockets for specific country.

#### Accessories

Model	Code
Dry Contact for Evo Dsp MM and Evo Dsp Plus MM HE	FGCEVODSDRY3
SNMP for Evo Dsp MM and Evo Dsp Plus MM HE	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.

