

**Use**

Local Area Network (LAN), Industrial processes, Virtual server, Relay, minimum inductance coils

**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
- ECO MODE operation
- Output voltage and frequency can be regulated from the front panel
- Battery charging system controlled by microprocessor
- Static Bypass
- USB communication port (card slot)
- Intelligent slot for SNMP or Dry Contact card (replacing USB)
- UPS Management Software TecnoManager (compatible with WINDOWS, UNIX, LINUX, etc.)
- Telephone/modem protection by RJ11/RJ45 plug
- High efficiency and low operating cost
- Easy installation and maintenance



**Details**



- 1 - USB port (card slot)
- 2 - Interface slot for SNMP or Dry Contact (replacing USB)
- 3 - RJ11/RJ45 plug
- 4 - Input thermal protection
- 5 - Output sockets
- 6 - Input socket
- 7 - Output thermal protection
- 8 - IEC output sockets

UPS Evo Dsp Plus MM 1.2-2.4

UPS Evo Dsp Plus MM 3.6

**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.



Multifunction LCD display



# UPS EVO DSP PLUS MM

## 1.2-2.4-3.6

## 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	FGCEVDP1202MM	FGCEVDP2402MM	FGCEVDP3602MM
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	15x22x40 cm		19x32x42 cm
Dimension (with packing) WxHxD	23x33x47 cm		33x46x56 cm
Weight	12 Kg	18 Kg	30 Kg
Equipped with	1 power cable 2 output cables (IEC type)		
<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	100-110% only audible warning, 110-130% for 30 sec, >130% for 100 ms		
Efficiency	>92% (line/battery mode), >98% (ECO mode)		
Transfer time	0 ms (On-Line)		
Outlets	4 (IEC 320 C13 type)		6 (IEC 320 C13 type) + 1 (IEC 320 C19 type)
<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>Eco Mode</b>			
Voltage range	Low threshold from -7 to -24Vac (selectable) - High threshold from +7 to +24 Vac (selectable)		
Input frequency range (50Hz nominal frequency)	47-53 Hz		
Input frequency range (60Hz nominal frequency)	57-63 Hz		
<b>Battery</b>			
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		
<b>Interfacing</b>			
Interface (communication port)	USB (card slot)		
Dry contact interface	Yes (optional replacing USB)		
Software	TecnoManager downloadable free from <a href="http://www.tecnaware.com">www.tecnaware.com</a> (compatible with WINDOWS, UNIX, LINUX, ecc.)		
SNMP interface	SNMP internal module (compatible with WINDOWS, UNIX, LINUX, ecc.) - optional		
Phone/modem line protection	RJ11/RJ45 plug		
<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	24 months electronic parts and 12 months batteries		
Extensions	Optional		

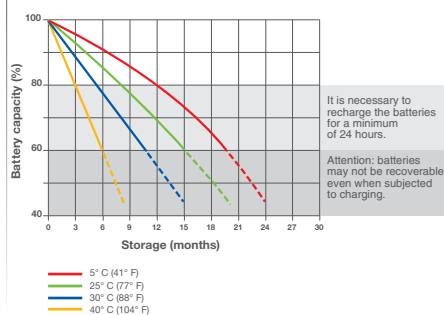
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Available on request with input/output nominal voltage 110Vac or 120Vac and with input plug and output sockets for specific country.

### Accessories

Model	Code
Bypass Box for UPS MM from 1 KVA to 3.6 KVA	FGCBYPIEC
Dry Contact for Evo Dsp MM and Evo Dsp Plus MM	FGCEVODSDRY3
SNMP for Evo Dsp MM and Evo Dsp Plus MM	FGCNETAG7
IEC320 C20/M connector to wire	ESNIEC60320C20

### 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.

