

Local Area Network (LAN), Data Centers

#### Protection

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

#### Management

- Convertible format (rack 19" or tower) with adjustable 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
- EPO (Emergency Power Off)
- Hot Swap Battery
- ECO MODE operation
- Frequency converter operation
- Output voltage and frequency can be regulated from the front panel
- Battery charging system controlled by microprocessor
- Static Bypass
- RS232 and USB communication port
- Intelligent slot for SNMP or Dry Contact card
- Telephone/modem protection by RJ11/RJ45 plug
- High efficiency and low operating cost
- Easy installation and maintenance
- UPS Management Software TecnoManager (compatible with WINDOWS, UNIX, LINUX, etc.)

### DSP

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



EVO DSP 1.3 Rack Tower



EVO DSP 2.6 Rack Tower



EVO DSP 4.0 Rack Tower

#### Details

- 1 - RS232 port
- 2 - USB port
- 3 - RJ11/RJ45 plug
- 4 - EPO connector
- 5 - Input thermal protection
- 6 - Input socket
- 7 - Output sockets
- 8 - Interface slot for SNMP or Dry Contact
- 9 - Connector for extra Battery Box
- 10 - IEC output sockets



19" Rack cabinet positioning



Hot Swap batteries

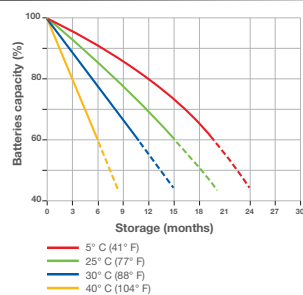


## Main features

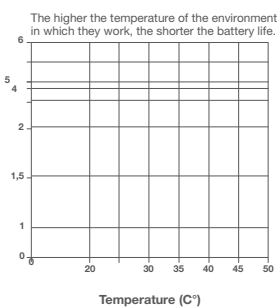
- Internal battery charger on every unit
- Units can be expanded infinitely
- Batteries with thermal circuit protection
- Easy connection to UPS
- Convertible format (rack 19" or tower)
- Easy installation and maintenance

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## Storage of batteries in UPS and Battery Boxes



## Battery life in service



## Detail



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



19' Rack cabinet positioning

# UPS EVO DSP MM RT

## BATTERY BOX

ON LINE MM

ifi i

| M I                            | ATTERY X F REV D P MM 1. RT                                                                                                                               | ATTERY X F REV D P MM . RT | ATTERY X F REV D P MM 4. RT |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-----------------------------|
| Code                           | F EVDRT 4/1                                                                                                                                               | F EVDRT 4 /                | F EVDRT7 /                  |
| Positioning                    | Into 19" rack cabinet (2U) or tower positioning                                                                                                           |                            |                             |
| Dimension (Box) WxHxD          | 43,8x8,8x38 cm                                                                                                                                            | 43,8x8,8x48 cm             | 43,8x8,8x68 cm              |
| Dimension (with packing) WxHxD | 59x26x55 cm                                                                                                                                               | 59x26x65 cm                | 59x26x85 cm                 |
| Weight                         | 21 Kg                                                                                                                                                     | 31 Kg                      | 43 Kg                       |
| Equipped with                  | Battery charger power cable, battery cable to connect UPS to Battery Box, 2 plastic pedestals for Tower positioning, 2 metal handle for 19" Rack mounting |                            |                             |
| y                              |                                                                                                                                                           |                            |                             |
| Type                           | Lead acid, sealed, maintenance free                                                                                                                       |                            |                             |
| Batteries number               | 4                                                                                                                                                         | 8                          | 12                          |
| Nominal battery voltage        | 24Vdc                                                                                                                                                     | 48Vdc                      | 72Vdc                       |
| Battery specification          | 12Vdc - 9Ah                                                                                                                                               |                            |                             |
| I l y                          |                                                                                                                                                           |                            |                             |
| Nominal input voltage          | 230Vac                                                                                                                                                    |                            |                             |
| Nominal input frequency        | 50/60Hz                                                                                                                                                   |                            |                             |
| Nominal charging voltage       | 27.4Vdc                                                                                                                                                   | 54.8Vdc                    | 82.2Vdc                     |
| Max charging current           | 1A                                                                                                                                                        |                            |                             |
| P i                            |                                                                                                                                                           |                            |                             |
| Battery charge input           | Thermal fuse                                                                                                                                              |                            |                             |
| Battery circuit                | Magnetothermic switch                                                                                                                                     |                            |                             |
| E vi l ifi i                   |                                                                                                                                                           |                            |                             |
| 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                                                                                                                                                        |                            |                             |
| W y                            |                                                                                                                                                           |                            |                             |
| Standard                       | 24 months electronic parts and 12 months batteries                                                                                                        |                            |                             |

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