



DISPLAY LCD color touch

- Ups Evo DSP Plus 10-20 TT PF 1 Ups Evo DSP Plus 30 TT PF 1
- 1 RS232 port 2 USB port 3 EPO connector 4 Interface for parallel connection 5 Slot for SNMP interface, Dry Contact or MODBUS 6 Input bypass switch
 - 7 Manual bypass switch for maintenance 8 Output voltage switch 9 Input voltage switch 10 Connector for external Battery Box 11 Input/output terminal box

Main Specifications

- For Local Area Network (LAN), Data Centers, Industrial equipment, Electromedical equipment
- Power factor 1
- Double input mains/bypass
- Rectifier realized by IGBT technology
- Compatible with Generators
- Battery recharge system managed by microprocessor
- Static and manual bypass
- Expandable up to 3 units in parallel with shared Box Battery
- UPS Management Software TecnoManager compatible with Windows, Mac OS X, Unix, Linux, etc.



Specifications

| UPS Model | EVO DSP PLUS TT 10.0-20.0-30.0 PF 1 | | | | | | | | | | | |
|---|---|--|-------------------------------|-------------------------------|----------------------------|---------------------|--------------|--------------|----------------------------|---------------------------|---------------|---------------|
| Code | FGCEDP10TT/00 | FGCEDP10TT/C FGCEDP10TT/2C | FGCEDP10TT/D FGCEDP10TT/2D | FGCEDP10TT/E FGCEDP10TT/2E | FGCEDP20TT/00 | FGCEDP20TT/C | FGCEDP20TT/D | FGCEDP20TT/E | FGCEDP30TT/00 | FGCEDP30TT/2C | FGCEDP30TT/2D | FGCEDP30TT/2E |
| Nominal power | 10 KVA | | | | 20 KVA | | | | 30 KVA | | | |
| Active power | 10 KW | | | | 20 KW | | | | 30 KW | | | |
| Power Factor | 1 | | | | | | | | | | | |
| Technology | On-Line Double Conversion transformerless (VFI-SS-111) | | | | | | | | | | | |
| Cooling | Fan cooling | | | | | | | | | | | |
| Dimension (UPS) WxHxD | 25x82,6x63 cm | | | | | | | | 30x100x81,5 cm | | | |
| Dimension (with packing) WxHxD | 38,5x102,5x73,5 cm | | | | | | | | 38,5x120,5x92 cm | | | |
| Weight | 70Kg | 116 Kg 160Kg | 124 Kg 176Kg | 128 Kg 184 Kg | 80Kg | 150Kg | 166Kg | 173Kg | 95 Kg | 235 Kg | 268 Kg | 280 Kg |
| Input | | | | | | | | | | | | |
| Number of phases | 3Ph+N | | | | | | | | | | | |
| Nominal voltage | 360Vac/380Vac/400Vac/415Vac | | | | | | | | | | | |
| Nominal voltage (Ph-N) | 208Vac/220Vac/230Vac/240Vac | | | | | | | | | | | |
| Input voltage range (Ph-N) | 176Vac-276Vac to 100% load, 110Vac-300Vac to 50% load | | | | | | | | | | | |
| Nominal frequency | 50/60 Hz | | | | | | | | | | | |
| Input frequency range On-Line mode | 46-54 Hz or 56-64 Hz | | | | | | | | | | | |
| Input current harmonic distortion (THDi) | ≤4% | | | | | | | | | | | |
| Input power factor | 0,99 | | | | | | | | | | | |
| Output | | | | | | | | | | | | |
| Number of phases | 3Ph+N | | | | | | | | | | | |
| Nominal voltage | 360Vac/380Vac/400Vac/415Vac (Ph-N: 208Vac/220Vac/230Vac/240Vac) | | | | | | | | | | | |
| Voltage Regulation (On-Line and Battery mode) | ±1% | | | | | | | | | | | |
| Voltage THD at rated linear load | <2% (linear load) - <5% (distorting load) | | | | | | | | | | | |
| Crest factor | 3:1 | | | | | | | | | | | |
| Frequency | 50/60 Hz | | | | | | | | | | | |
| Frequency stability | ±0,1 Hz | | | | | | | | | | | |
| Inverter waveform | Sinewave | | | | | | | | | | | |
| Overload capability (On-line mode) | 100-110% for 60 minutes, 100-125% for 10 minutes, 125-150% for 1 minute, >150 immediate | | | | | | | | | | | |
| Overload capability (Battery mode) | 100-110% for 60 minutes, 100-125% for 10 minutes, 125-150% for 1 minute, >150 immediate | | | | | | | | | | | |
| Efficiency | 96%, calculated in double conversion mode at 100% load to 100% load according to standard 62040-3 | | | | | | | | | | | |
| Transfer time | 0 ms (On-Line) | | | | | | | | | | | |
| Battery | | | | | | | | | | | | |
| Type | Lead acid, sealed, maintenance free | | | | | | | | | | | |
| Installed inside | - | 20 elements (10+10) 40 elements 2 x (10+10) | | | - | 32 elements (16+16) | | | - | 64 elements (2 set 16+16) | | |
| Extended autonomy | External Battery Box (opt) | - | | | External Battery Box (opt) | - | | | External Battery Box (opt) | - | | |
| Environmental specification | | | | | | | | | | | | |
| Working temperature | From 0 to 55 °C (recommended from 20 to 25 °C, for longer battery life) | | | | | | | | | | | |
| 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) | | | | | | | | | | | |

Accessories

| Model | Code | Model | Code | Model | Code |
|---------------------------|--------------|---|--------------|---|-------------|
| Parallel cables kit | FGCKITPARCA1 | Dry Contact 9 PIN interface | FGCEVODSDRY4 | Three-phase isolating transf. 20 KVA delta/star | FGCIT20KTST |
| Internal SNMP interface | FGCNETAG7 | Three-phase isolating transf. 10 KVA star/star | FGCIT10KSST | Three-phase isolating transf. 30 KVA delta/star | FGCIT30KSST |
| ModBus RS485 interface | FGCMODBUS | Three-phase isolating transf. 10 KVA delta/star | FGCIT10KTST | Three-phase isolating transf. 30 KVA delta/star | FGCIT30KTST |
| Dry Contact DB9 interface | FGCEVODSDRY3 | Three-phase isolating transf. 20 KVA star/star | FGCIT20KSST | | |

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Main Specifications

- Front door for access to battery compartments
- Removable side panels
- Isolator fuse protecting the battery circuit
- Easy maintenance

Specifications

| Model | BATTERY BOX FOR EVO DSP PLUS TT 10.0 PF 1 | | | | | | | | | | | | |
|------------------------------------|--|---------------|---------------|-----------------------|---------------|---------------|-----------------------|---------------|---------------|-----------------------|----------------|---------------|----------------|
| Code | FBEBP240A2/00 | FBEBP240A2/18 | FBEBP240A2/24 | FBEBP240B2/00 | FBEBP240B2/40 | FBEBP240B2/60 | FBEBP240B2/80 | FBEBP240D2/00 | FBEBP240D2/65 | FBEBP240D2/100 | FBEBP240D2/120 | FBEBP240C2/00 | FBEBP240C2/150 |
| Dimension (Box) LxHxP | 60 x 110 x 60 cm | | | 61 x 140 x 68 cm | | | 61 x 140 x 88 cm | | | 81 x 190 x 98 cm | | | |
| Dimension (with packing) WxHxD | 74 x 162,5 x 104,5 cm | | | 94 x 212,5 x 114,5 cm | | | 94 x 212,5 x 114,5 cm | | | 94 x 212,5 x 114,5 cm | | | |
| Weight | 80 Kg | 190 kg | 240 kg | 175kg | 420 kg | 505 kg | 625 Kg | 175 kg | 560 kg | 755kg | 785 Kg | 285 Kg | 1.155 Kg |
| Equipped with | Battery cable to connect UPS to Battery Box | | | | | | | | | | | | |
| Battery | | | | | | | | | | | | | |
| Type | Lead acid, sealed, maintenance free | | | | | | | | | | | | |
| Protection | | | | | | | | | | | | | |
| Battery circuit | Disconnecter | | | | | | | | | | | | |
| Environmental specification | | | | | | | | | | | | | |
| Working temperature | From 0 to 55 °C (recommended from 20 to 25 °C) | | | | | | | | | | | | |
| Humidity | < 95% without condensation | | | | | | | | | | | | |
| Maximum altitude | 3000 m | | | | | | | | | | | | |
| IP protection | IP20 | | | | | | | | | | | | |
| Certifications | CE | | | | | | | | | | | | |

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Main Specifications

- Front door for access to battery compartments
- Removable side panels
- Isolator fuse protecting the battery circuit
- Easy maintenance

Specifications

| Model | BATTERY BOX FOR EVO DSP PLUS TT 20-30 PF 1 | | | | | | | | | | | | |
|------------------------------------|--|--------------|--------------|-----------------------|--------------|--------------|-----------------------|--------------|---------------|-----------------------|--------------|---------------|---------------|
| Code | FBEBP384B/00 | FBEBP384B/24 | FBEBP384B/40 | FBEBP384C/00 | FBEBP384C/60 | FBEBP384C/65 | FBEBP384C/80 | FBEBP384D/00 | FBEBP384D/100 | FBEBP384D/120 | FBEBP384E/00 | FBEBP384E/140 | FBEBP384E/200 |
| Dimension (Box) LxHxP | 61 x 140 x 88 cm | | | 81 x 140 x 88 cm | | | 81 x 190 x 98 cm | | | 121 x 190 x 98 cm | | | |
| Dimension (with packing) WxHxD | 74 x 162,5 x 84,5 cm 380 Kg | | | 94 x 162,5 x 104,5 cm | | | 94 x 212,5 x 114,5 cm | | | 134x 212,5 x 114,5 cm | | | |
| Weight | 150 Kg | 380 kg | 770 kg | 205 kg | 700 kg | 820 kg | 950 Kg | 285 kg | 1.250 kg | 1.260 kg | 350 Kg | 1.670 kg | 2.240 kg |
| Equipped with | Battery cable to connect UPS to Battery Box | | | | | | | | | | | | |
| Battery | | | | | | | | | | | | | |
| Type | Lead acid, sealed, maintenance free | | | | | | | | | | | | |
| Protection | | | | | | | | | | | | | |
| Battery circuit | Disconnecter | | | | | | | | | | | | |
| Environmental specification | | | | | | | | | | | | | |
| Working temperature | From 0 to 55 °C (recommended from 20 to 25 °C) | | | | | | | | | | | | |
| Humidity | < 95% without condensation | | | | | | | | | | | | |
| Maximum altitude | 3000 m | | | | | | | | | | | | |
| IP protection | IP20 | | | | | | | | | | | | |
| Certifications | CE | | | | | | | | | | | | |

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