







Master Industrial









3:1 30-80 kVA DC BUS 220 Vdc





Service

HIGHLIGHTS

- Battery voltage: 220 Vdc
- **Galvanic isolation of** input and output
- High short-circuit
- Redundant ventilation

Industrial application protection

Master Industrial series UPS provide maximum protection and power quality for any type of load, especially industrial applications, such as manufacturing and petrochemical processes, electrical distribution and power plants. Master Industrial is an on-line double conversion UPS (class VFI SS 111 in accordance with IEC EN 62040-3) with input and output isolation transformers.

Industrial environment

Master Industrial is suited to the most demanding installation environments where there are vibrations, mechanical stresses, dust and in general where operating conditions are unfavourable to products created for the standard UPS market.

High ICC

The high short-circuit current (ICC = 3xIn) makes it suitable for loads that require high current peaks during switch-on or during normal operation.

DC voltage 220 V

The input and inverter transformers guarantee the isolation of the batteries, which are sized for a voltage of 220 Vdc (from 108 to 114 elements), the standard industrial value.

those of the conventional Master MPS range.

OPTIONS

SOFTWARE & ACCESSORIES

See Master MPS

PRODUCT ACCESSORIES

Isolation transformer

Synchronisation device (UGS)

Hot connection device (PSJ)

Digital I/O and Generator interface

Parallel configuration kit (Closed Loop)

Battery cabinets empty or for extended runtimes

Top Cable Entry cabinets

IP rating IP31/IP42

DIMENSIONS

MIM 30 - MIM 40







| MODELS | MIM 30 | MIM 40 | MIM 60 | MIM 80 |
|---|---|--------------|-------------------|--------|
| INPUT | | | | |
| Nominal voltage | 380 - 400 - 415 Vac three-phase | | | |
| Voltage tolerance | 400 V ± 20% | | | |
| Frequency | 45 - 65 Hz | | | |
| Power factor | > 0,93 | | | |
| Current distortion | < 6% | | | |
| Soft start | 0 ÷ 100% in 120" configurable | | | |
| Permitted frequency tolerance | ± 2% (selectable from ± 1% to ± 5% from front panel) | | | |
| Standard equipment provided | Back Feed protection; separable bypass line; battery isolation | | | |
| BATTERIES | | | | |
| Туре | VRLA AGM / GEL; NiCd | | | |
| Number of cells | 108/114 | | | |
| Maximum charging voltage | 274 V | | | |
| Temperature compensation | -0,5 Vx°C | | | |
| OUTPUT | | , | | |
| Nominal power (kVA) | 30 | 40 | 60 | 80 |
| Active power (kW) | 24 | 32 | 48 | 64 |
| Nominal voltage | 230 Vac single-phase | | | |
| Static stability | ± 1% | | | |
| Dynamic stability | ± 5% | | | |
| Voltage distortion | < 1% with linear load / < 3% with non-linear load | | | |
| Frequency | 50 or 60 Hz (selectable) | | | |
| Crest factor | 3:1 lpeack/lrms | | | |
| Overload | 110% for 60'; 125% for 10'; 150% for 1' | | | |
| Short-circuit current | 3 x l nom. | | | |
| INFO FOR INSTALLATION | | · | | |
| Weight (kg) | 640 | 650 | 910 | 940 |
| Dimensions (WxDxH) (mm) | 800 > | x 800 x 1900 | 1200 x 800 x 1900 | |
| Remote signals | dry contacts | | | |
| Remote controls | ESD and bypass | | | |
| Communications | Double RS232 + dry contacts + 2 slots for communications interface | | | |
| Operating temperature | 0 °C / +40 °C | | | |
| Relative humidity | <95% non-condensing | | | |
| Colour | Light grey RAL 7035 | | | |
| Noise level at 1 m (ECO Mode) | 68 ÷ 70 dBA | | | |
| Ventilation | Redundant fans (front-top) | | | |
| IP rating | IP20 | | | |
| Efficiency | up to 94% | | | |
| Standards | Directives LV 2006/95/EC - 2004/108/EC; Safety IEC EN 62040-1; EMC IEC EN 62040-2; Performance IEC EN 62040-3 | | | |
| Classification in accordance with IEC 62040-3 | (Voltage Frequency Independent) VFI - SS - 111 | | | |
| Moving the UPS | transpallet | | | |

