



Master Industrial



ONLINE



Tower



Service
1st start



3:1 30-80 kVA
DC BUS 220 Vdc

HIGHLIGHTS

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

REDUNDANT VENTILATION

Redundant ventilation at 100% load is standard, ensuring operation with a normal load with half of the fans operating; in addition, each fan is monitored and an alarm signal is provided in the event of failure. The Easy Source input features, the Battery Care System, and the flexibility and communications capabilities are the same as those of the conventional Master MPS range.

OPTIONS

SOFTWARE

See Master MPS

PRODUCT ACCESSORIES

Battery temperature sensor

Isolation transformer

Synchronisation device (UGS)

Hot connection device (PSJ)

Parallel configuration kit (Closed Loop)

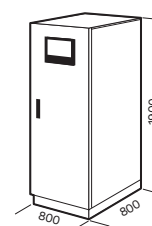
Battery cabinets empty or for extended runtimes

Top Cable Entry cabinets

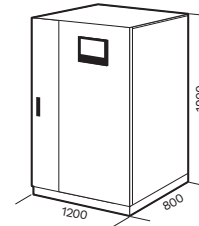
IP rating IP31/IP42

DIMENSIONS

MIM 30
MIM 40



MIM 60
MIM 80



MODELS	MIM 30	MIM 40	MIM 60	MIM 80
INPUT				
Rated voltage [V]	380 / 400 / 415 three-phase			
Voltage tolerance [V]	400 ±20% @ full load¹			
Frequency [Hz]	45 - 65			
Power factor	>0.93			
Current distortion	<6%			
Soft start	0 - 100% in 120 sec. configurable			
Permitted frequency tolerance	±2% (selectable from ±1% to ±5% from front panel)			
Standard equip. provided	Back Feed protection; separable bypass line; battery isolation			
BATTERIES				
Type	VRLA AGM / GEL; NiCd			
Number of cells	108/114			
Maximum charging voltage [V]	274			
Recharge voltage compensation	-0.11% x V x °C			
OUTPUT				
Nominal power [kVA]	30	40	60	80
Active power [kW]	24	32	48	64
Rated voltage [V]	230 single-phase			
Static stability	±1%			
Dynamic stability	±5%			
Voltage distortion	<1% with linear load / <3% with non-linear load			
Frequency [Hz]	50 or 60 (selectable)			
Crest factor [I _{peak} /I _{rms}]	3:1			
Overload	110% for 60 min.; 125% for 10 min.; 150% for 1 min.			
Short circuit current	3 x I _{nom} .			
OVERALL SPECIFICATIONS				
Weight [kg]	640	650	910	940
Dimensions (WxDxH) [mm]	800x800x1900		1200x800x1900	
Remote signals	dry contacts			
Remote controls	ESD and bypass			
Communications	Double RS232 + dry contacts + 2 slots for communications interface			
Ambient temp. for the UPS	0 °C - +40 °C			
Recommended temperature for battery life	+20 °C - +25 °C			
Range of relative humidity	5-95% non-condensing			
Colour	Light grey RAL 7035			
Noise level at 1 m (ECO Mode) [dBA]	68 - 70			
Ventilation	Redundant fans (front-top)			
IP rating	IP20			
Double conversion efficiency	up to 94%			
Standards	European directives: L V 2014/35/EU low voltage Directive EMC 2014/30/EU electromagnetic compatibility Directive Standards: Safety IEC EN 62040-1; EMC IEC EN 62040-2; RoHS compliant Classification in accordance with IEC 62040-3 (Voltage frequency Indioendent) VFI - SS - 111			
Classification in accordance with IEC 62040-3	(Voltage Frequency Independent) VFI - SS - 111			
Moving the UPS	Pallet jack			

¹ For wider tolerance conditions apply



RPS SpA - Riello Power Solutions - Member of the Riello Elettronica Group

Viale Europa, 7 - 37045 Legnago (Verona) - ITALY - Tel: +39 0442 635811

www.riello-ups.com - riello@riello-ups.com

