



Illustrative photo

### 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 = 3) makes it suitable for loads that require high current peaks during switch-on or during normal operation.

### DC voltage 220V

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.



Service  
1st start



### Technical specification

Models	MIM 30	MIM 40	MIM 60	MIM 80
<b>Input</b>	<b>MIM 30</b>	<b>MIM 40</b>	<b>MIM 60</b>	<b>MIM 80</b>
Nominal voltage	380-400-415 V <sub>AC</sub> 3 ph			
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 form ±1 to ±5% from front panel)			
Standard equipment provided	Back Feed protection, separable bypass line, battery isolation			
<b>Batteries</b>	<b>MIM 30</b>	<b>MIM 40</b>	<b>MIM 60</b>	<b>MIM 80</b>
Type	VRLA AGM/GEL; NiCd			
Number of cells	108/114			
Maximum charging voltage	274V			
Temperature compensation	-0,5 Vx°C			
<b>Output</b>	<b>MIM 30</b>	<b>MIM 40</b>	<b>MIM 60</b>	<b>MIM 80</b>
Nominal power	30 kVA	40 kVA	60 kVA	80 kVA
Active power	24 kW	32 kW	48 kW	64 kW
Nominal voltage	230 V <sub>AC</sub> 1 ph			
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 I <sub>peak</sub> /I <sub>rms</sub>			
Overload	110% for 60'; 125% for 10'; 150% for 1'			
Short-circuit current	3 x I <sub>nom</sub> .			
<b>Other features</b>	<b>MIM 30</b>	<b>MIM 40</b>	<b>MIM 60</b>	<b>MIM 80</b>
Weight	640 kg	650 kg	910 kg	940 kg
Dimensions (w x d x h)	800x800x1900 mm		1200x800x1900 mm	
Communications and remote control	2x RS232, dry contacts, 2x slot for communications interface ESD and bypass			
Operating temperature	0°C / +40°C			
Relative humidity	< 95% non-condensing			
Colour	Light grey RAL 7035			
Noise level at 1 m	68-70 dBA			
Ventilation	Redundant fans (front-top)			
IP rating	IP20 (option IP31/IP42)			
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			

A2B, s.r.o. reserves the right to change any specifications without prior notice (V012014)