



INDUSTRIAL
PLCS



INDUSTRIAL
PROCESSES

Master Plus Industrial

30-80 kVA

three-phase/single-phase

DC BUS 220 Vdc

Master Plus Industrial 30-80 kVA



PROTECTION FOR INDUSTRIAL APPLICATION

Master Plus Industrial is an on-line double conversion UPS (VFI SS 111 in accordance with IEC EN 62040-3) with a transformer isolated inverter and rectifier. Master Plus Industrial has a compact foot print and high quality output to provide the ultimate power protection for industrial applications: industrial and petrochemical processes, power plants and energy distribution systems.

INDUSTRIAL ENVIRONMENT

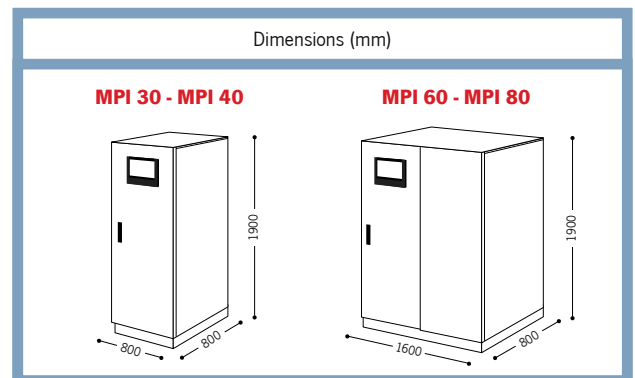
Master Plus Industrial is suitable for severe installation environments such as petrochemical manufacturing sites, where the operating conditions (levels of vibration, mechanical stress, ambient temperatures and dust ingress) require a more robust and industrialised UPS design to those installed within, for example, data centres.

HIGH Icc

A high short-circuit current ($I_{cc} = 3 I_n$) making the UPS suitable for loads with high current peaks; during switch-on or a load step-change.

220V DC VOLTAGE

An input transformer and isolated inverter to protect the 220Vdc bus bar (from 108 to 114 blocks), the recognised industrial standard.



REDUNDANT VENTILATION

100% redundant ventilation with 50% fan loading at nominal load and each fan monitored for breakdown or failure.

The Easy Source input, the Battery Care System as well as the flexibility and communication features are the same as those offered on the traditional Master Plus series.

MODELS	MPI 30	MPI 40	MPI 60	MPI 80
POWER (kVA)	30	40	60	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	< 5% C			
Soft start	0 ÷ 100% in 30" configurable			
Permitted frequency tolerance	± 2% (selectable from ± 1% to ± 5% from the front panel)			
Standard features	Back Feed protection; separable bypass line			
BATTERY				
Number of cells	108 ÷ 114			
Max Vdc	274 V			
Temperature compensation	-0,5 Vx°C			
OUTPUT				
Rated 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 distorting load			
Frequency	50 or 60 Hz configurable			
Peak factor	3:1			
Overload	110% for 60'; 125% for 10'; 150% for 1'			
Short circuit current	3 Inom.			
SYSTEM				
Remote signalling	Voltage-free contacts			
Remote commands	EPO and bypass			
Communication	double RS232 + remote contacts + 2 communication interface slots			
Efficiency	Up to 94%			
Dimensions (hwd) (mm)	1900 x 800 x 800		1900 x 1600 x 800	
Weight (kg)	850	900	1400	1500
Noise level	63 ÷ 68 dBA a 1 m			
Ventilation	Redundant fans			
Operating temperature	0 °C ÷ +40 °C			
Relative humidity	< 95% non condensing			
Protection rating	IP20			
Colour	RAL 7035			
Compliance	Safety: EN 62040-1-1 (directive 2006/95/EC); EMC: EN 62040-2 (directive 2004/108/EC)			
Classification according to IEC 62040-3	(Voltage Frequency Independent) VFI - SS - 111			

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