



DATACENTRE



E-MEDICAL



INDUSTRY



TRANSPORT



EMERGENCY

Master HP



ONLINE



Tower



3:3 100-600 kVA



SmartGrid
ready



Flywheel
compatible



Supercaps
UPS



Service
1st start



HIGHLIGHTS

- IGBT-based rectifier technology
- Compact and reliable
- Galvanic isolation
- High overload capacity
- LCD graphic display

The Master HP series from 100 to 600 kVA is the Riello UPS solution for installations requiring high energy efficiency and maximum power availability. Master HP Series provides maximum protection and power quality for data centres and industrial loads. The UPS has an IGBT-based rectifier, DSP (Digital Signal Processors) technology and provides true On-line, double conversion power protection, (VFI SS 11 - Voltage and Frequency Independent in accordance with IEC EN 62040-3).

Maximised cost savings

The Master HP has the ability to monitor the mains input quality and to select the best operating mode based on the interference present (Smart Active mode) or circular redundancy (Parallel Energy Saving mode, which allows the UPS to regulate available capacity based on the immediate demands of the load, automatically switching to standby in the event of excess capacity), the Master HP also offers high levels of efficiency for partial loads, resulting in reduced operating costs.

OPTIONS

SOFTWARE

PowerShield³
PowerNetGuard

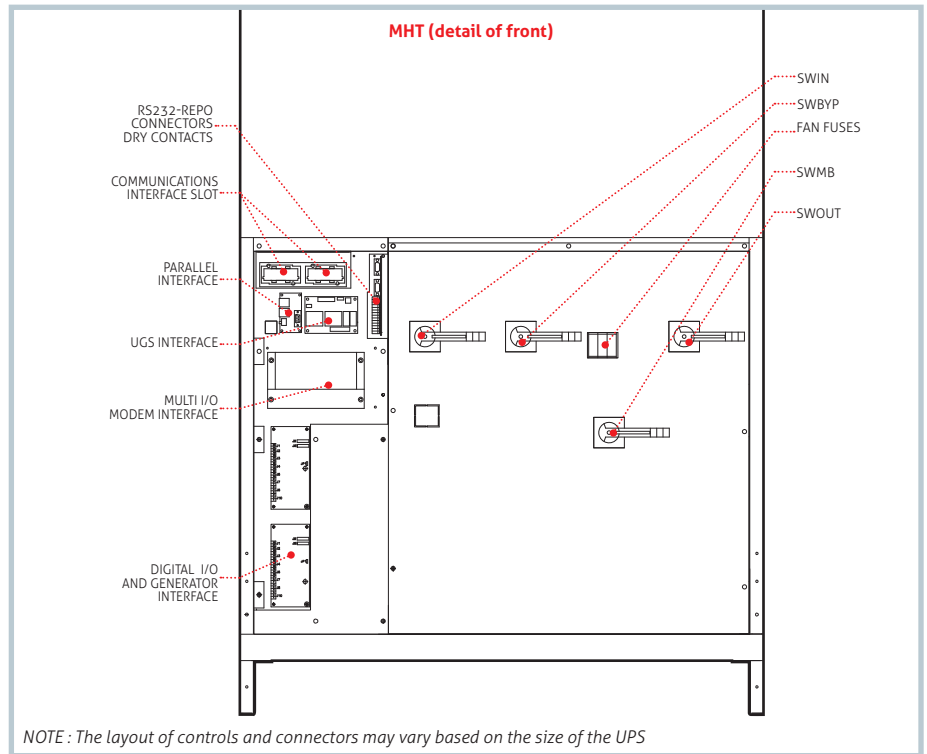
ACCESSORIES

NETMAN 204
MULTICOM 302
MULTICOM 352
MULTI I/O
MULTIPANEL

PRODUCT ACCESSORIES

Isolation transformer
Synchronisation device (UGS):
see Master MPS on page 88
Hot connection device (PSJ):
see Master MPS on page 88
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

DETAILS



BATTERY BOX

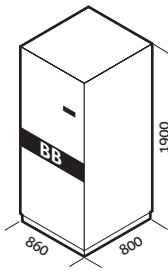
MODELS

BB 1900 480-V6 / BB 1900 480-V7
BB 1900 480-V8 / BB 1900 480-V9

UPS MODELS

MHT 100-600

Dimensions
(mm)



CABINETS WITH TOP ACCESS FOR CABLES

MODELS

TCE MHT 100-250

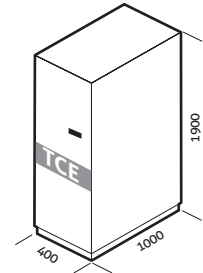
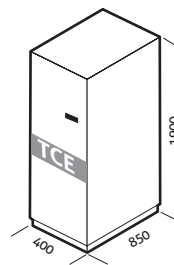
TCE MHT 300-600

UPS MODELS

MHT 100-250

MHT 300-600

Dimensions
(mm)



THREE-PHASE ISOLATION TRANSFORMERS

MODELS

TBX 100 T - TBX 160 T

TBX 200 T - TBX 250 T

TBX 300 T - TBX 600 T

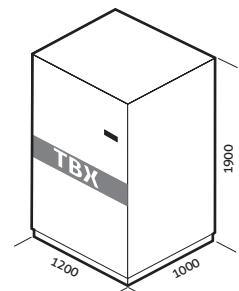
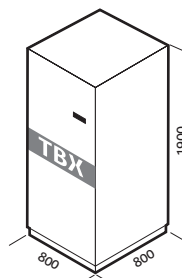
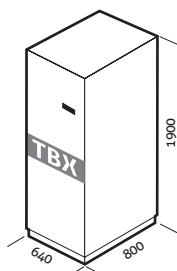
UPS MODELS

MPT 100-160 / MHT 100-160

MPT 200 / MHT 200-250

MHT 300-600

Dimensions
(mm)



MODELS	MHT 100	MHT 120	MHT 160	MHT 200	MHT 250	MHT 300	MHT 400	MHT 500	MHT 600
INPUT									
Nominal voltage	380 - 400 - 415 Vac three-phase								
Voltage tolerance	400 V \pm 20% @ full load								
Frequency	45 - 65 Hz								
Power factor	> 0.99								
Harmonic current distortion	<3% THDi								
Soft start	0 - 100% in 120" (selectable)								
Frequency tolerance	\pm 2% (selectable from \pm 1% to \pm 5% from front panel)								
Standard equipment provided	Back Feed protection; separable bypass line								
BYPASS									
Nominal voltage	380 - 400 - 415 Vac three-phase + N								
Nominal frequency	50 or 60 Hz (selectable)								
OUTPUT									
Nominal power (kVA)	100	120	160	200	250	300	400	500	600
Active power (kW)	90	108	144	180	225	270	360	450	540
Number of phases	3 + N								
Nominal voltage	380 - 400 - 415 Vac three-phase + N (selectable)								
Static stability	\pm 1%								
Dynamic stability	\pm 5% in 10 ms								
Voltage distortion	< 1% with linear load / < 3% with non-linear load								
Crest factor	3:1 lpeak/lrms								
Frequency stability on battery	0.05%								
Frequency	50 or 60 Hz (selectable)								
Overload	110% for 60 minutes; 125% for 10 minutes; 150% for 1 minute								
BATTERIES									
Type	VRLA AGM / GEL; NiCd; Supercaps; Li-ion; Flywheels								
Ripple current	Zero								
Recharge voltage compensation	-0.5 V \times °C								
INFO FOR INSTALLATION									
Weight (kg)	656	700	800	910	1000	1400	1700	2100	2400
Dimensions (WxDxH) (mm)	800 x 850 x 1900		1000 x 850 x 1900			1500 x 1000 x 1900		2100 x 1000 x 1900	
Remote signals	dry contacts (configurable)								
Remote controls	ESD and bypass (configurable)								
Communications	Double RS232 + dry contacts + 2 slots for communications interface								
Operating temperature	0 °C / +40 °C								
Relative humidity	<90% non-condensing								
Colour	Dark grey RAL 7016								
Noise level at 1 m	63 - 68 dBA					70 - 72 dBA			
IP rating	IP20 (others on request)								
Smart Active efficiency	up to 98.5%								
Standards	Safety: EN 62040-1-1 (Directive 2006/95/EC); EMC: EN 62040-2 (Directive 2004/108/EC)								
Classification in accordance with IEC 62040-3	(Voltage Frequency Independent) VFI - SS - 111								
Moving the UPS	Pallet Jack								