



EMERGENCY



E-MEDICAL



INDUSTRY



DATACENTRE



TRANSPORT

Master HP & Master HE



ONLINE



Tower



Service
1st start



Flywheel
compatible



Supercaps
UPS



Lithium
compatible



SmartGrid
ready

3:3

Master HP
100-600 kVA

Master HE
100-800 kVA

HIGHLIGHTS

- **High efficiency (up to 95.5% in ON LINE mode)**
- **kW=KVA (HE Models)**
- **Rectifier IGBT based technology**
- **Galvanic isolation**
- **High overload capacity**
- **LCD display**

The Master HP series from 100 to 600 kVA and Master HE series from 100 to 800 kVA are the Riello UPS solution for installations requiring high energy efficiency and maximum power availability. Master HP/HE Series provides maximum protection and power quality for data centres and industrial loads. The UPS has an IGBT-based rectifier, DSP (Digital Signal Processor) technology and provides true-line, double conversion power protection, (VFI SS 11 - Voltage and Frequency Independent in accordance with IEC EN 62040-3).

MASTER HE - HIGH EFFICIENCY

Master HE series is available from 100 to 800 kVA. The UPS features a new ON LINE double-conversion technology utilising IGBT

and DSP (Digital Signal Processor) control to provide maximum protection, power quality and green energy for any type of application including data centres, disaster recover sites, telecoms rooms, industrial processes and security applications.

High efficiency stands for higher active power available if compared with legacy UPS thanks to output unitary power factor (up to +25% if compared unity with same UPS at p.f. 0.8). Nominal power is granted with no downgrading independently from operating temperature in the range 10-40 °C. Furthermore, control circuits and specifically designed firmware grant outstanding ON LINE double conversion efficiency up to 95.5%, comparable with the best transformer-free UPS available on the market.



MODELS	MHT 100	MHT 120	MHT 160	MHT 200	MHT 250	MHT 300	MHT 400	MHT 500	MHT 600
INPUT									
Rated voltage [V]	380 / 400 / 415 three-phase								
Voltage tolerance [V]	400 ±20% @ full load¹								
Frequency [Hz]	45 - 65								
Power factor	>0.99								
Harmonic current distortion [THDi]	<3%								
Soft start	0 - 100% in 120 sec. (selectable)								
Frequency tolerance	±2% (selectable from ±1% to ±5% from front panel)								
Standard equipment provided	Back Feed protection; separable bypass line								
BYPASS									
Rated voltage [V]	380 / 400 / 415 three-phase + N								
Rated Frequency [Hz]	50 or 60 (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								
Rated voltage [V]	380 / 400 / 415 three-phase + N (selectable)								
Static stability	±1%								
Dynamic stability	±5% in 10 msec.								
Voltage distortion	<1% with linear load / <3% with non-linear load								
Crest factor [lpeak/lrms]	3:1								
Frequency stability on battery	0.05%								
Frequency [Hz]	50 or 60 (selectable)								
Overload	110% for 60 min.; 125% for 10 min.; 150% for 1 min.								
BATTERIES									
Type	VRLA AGM / GEL; NiCd; Supercaps; Li-ion; Flywheels								
Ripple current	Zero								
Recharge voltage compensation	-0.11% x V x °C								
OVERALL SPECIFICATIONS									
Weight [kg]	700	750	835	970	1060	1500	1720	2440	2831
Dimensions (WxDxH) [mm]	800x850x1900		1000x850x1900			1500x1000x1900		2100x1000x1900	
Remote signals	dry contacts (configurable)								
Remote controls	ESD and bypass (configurable)								
Communications	Double RS232 + dry contacts + 2 slots for communications interface								
Ambient temperature 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	Dark grey RAL 7016								
Noise level at 1 m [dBA]	63 - 68					70 - 72			
IP rating	IP20 (others on request)								
Double conversion efficiency	up to 94.5%								
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								
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Altitude	6000 max altitude								
Moving the UPS	Pallet jack								

¹ For wider tolerance conditions apply.



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