

HPM



DATACENTRE



E-MEDICAL



INDUSTRY



TRANSPORT



EMERGENCY



ONLINE



Modular

3:3

15kVA to 1500kVA UPS

15kVA to 50kVA PM

N+X Redundancy



HIGHLIGHTS

- **Utmost Availability**
- **Ultimate Scalability**
- **Un-matched Power Density**
- **Efficiency up to 96%**
- **Smart Sleep Function**
- **Multi Control**
- **Highly Flexible**
- **Cold Start Feature**

The HPM is the ultimate modular UPS for DATA CENTERS and other CRITICAL LOADS. The HPM is designed to protect any critical high-density computer and IT environment, whilst achieving maximum availability. The HPM grows along with the demands of the business without over-sizing the UPS - optimizing both the initial investment and the Total Cost of Ownership. As soon as demand increases, the HPM modular solution can expand its power capability, maintaining the highest levels of power protection, availability, redundancy and investment savings.

The HPM modular UPS provides the most compact footprint of less than 2m with best reliability and high performance, HPM is considered to be the best power protection solution for large data centers, as well as for sensitive electronics.

TECHNICAL SPECIFICATION

Specifications:

15 to 90kVA UPS

Model	HPM 30/15	HPM 45/15	HPM 90/15	
Capacity (kVA/kW)	30/30	45/45	90/90	
Power Module	15kVA/15kW			
Input				
Phase	380/400/415V (3P+N+G), 50/60Hz			
Voltage Range	304-478Vac (Line-Line) : 100% Load 228-304Vac (Line-Line) : Load de-rated Linearly			
Frequency Range	40Hz-70Hz			
Power Factor	>0.99			
Current Distortion(THDi)	<3% @ 100% Linear load			
Output				
Voltage	3Phase - 380/400/415V, 1Phase - 220/230/240V, 50/60Hz			
Voltage Regulation	1% for balanced load, 1.5% for unbalance load			
Voltage Distortion(THDv)	<1%for linear load, <3% for non linear load			
Crest Factor	3:1			
Overload Capability	110% for 60 minute, 125% for 10 minute, 150% for 1 minute			
Battery				
Voltage	+/- 240VDC			
Charger Power	20%* System Power			
Charger Voltage Precision	+/- 1%			
System				
Efficiency	Online Mode – 95%			
Display	7" color touch screen LCD			
IP Class	IP 20			
Interface	Standard: RS232, RS485, Dry Contacts (Programmable) Optional: SNMP			
Operation/Storage Temperature	0-40 °C / -25-70 °C			
Relative Humidity	0-95% (Non Condensing)			
Noise	≤ 56dB @ 100% load (1 meter distance)			
Standards	IEC 62040-1, IEC 62040-2, IEC 62040-3			
Physical				
Weight	Cabinet	42 Kg	55 Kg	85 Kg
	Power Module	15.5 Kg		
Dimension : mm (WxDxH)	Cabinet	485x697x398	485x751x575	485x751x1033
	Power Module	436x590x85		

*Specially designed for Indian conditions.



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 Website : www.riello-ups.in | Email : ups@riello-power.com

TECHNICAL SPECIFICATION

Specifications:

60 to 200kVA UPS

Model	HPM 60/20	HPM 120/20	HPM 200/20	HPM 60/20 Combo	
Capacity (kVA/kW)	60/54	120/108	200/180	60/54	
Power Module	20kVA/18kW				
Input					
Phase	380/400/415V (3P+N+G), 50/60Hz				
Voltage Range	304-478Vac (Line-Line) : 100% Load 228-304Vac (Line-Line) : Load de-rated Linearly				
Frequency Range	40Hz-70Hz				
Power Factor	>0.99				
Current Distortion (THDi)	<3% @ 100% Linear load				
Output					
Voltage	380/400/415V (3P+N+G), 50/60Hz				
Voltage Regulation	1% for balanced load, 1.5% for unbalance load				
Voltage Distortion (THDv)	<1% for linear load, <3% for non linear load				
Crest Factor	3:1				
Overload Capability	110% for 60 minute, 125% for 10 minute, 150% for 1 minute				
Battery					
Voltage	+/- 240VDC				
Charger Power	20%* System Power				
Charger Voltage Precision	+/- 1%				
System					
Efficiency	Online Mode – 95%				
Display	5.7" touch screen LCD				
IP Class	IP 20				
Interface	Standard: RS232, RS485, USB, Dry Contacts (Programmable) Optional: SNMP				
Operation/Storage Temperature	0-40 °C / -25-70 °C				
Relative Humidity	0-95% (Non Condensing)				
Noise	≤ 55dB @ 100% load (1 meter distance)				
Standards	IEC 62040-1, IEC 62040-2, IEC 62040-3				
Physical					
Weight	Cabinet	105 Kg	145 Kg	179 Kg	205 Kg
	Power Module	22 Kg			
	Battery Package				10 Kg (without battery)
Dimension: mm (WxDxH)	Cabinet	600x900x1100	600x900x1600	600x900x2000	600x1020x2000
	Power Module	440x590x134			
	Battery Package				120x824x177

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TECHNICAL SPECIFICATION

Specifications: 150 to 200kVA UPS

Model	HPM 150/25	HPM 200/25	
Capacity (kVA/kW)	150/150	200/200	
Power Module	25kVA/25kW		
Input			
Phase	380/400/415V (3P+N+G), 50/60Hz		
Voltage Range	304-478Vac (Line-Line) : 100% Load 228-304Vac (Line-Line) : Load de-rated Linearly		
Frequency Range	40Hz-70Hz		
Power Factor	>0.99		
Current Distortion(THDi)	<3% @ 100% Linear load		
Output			
Voltage	380/400/415V (3P+N+G), 50/60Hz		
Voltage Regulation	1% for balanced load, 1.5% for unbalance load		
Voltage Distortion(THDv)	<1%for linear load, <3% for non linear load		
Crest Factor	3:1		
Overload Capability	110% for 60 minute, 125% for 10 minute, 150% for 1 minute		
Battery			
Voltage	+/- 240VDC		
Charger Power	20%* System Power		
Charger Voltage Precision	+/- 1%		
System			
Efficiency	Online Mode – 96%		
Display	7" touch screen LCD		
IP Class	IP 20		
Interface	Standard: RS232, RS485, USB, Dry Contacts (Programmable) Optional: SNMP, Parallel Kit, SPD		
Operation/Storage Temperature	0-40 °C / -25-70 °C		
Relative Humidity	0-95% (Non Condensing)		
Noise	≤ 65dB @ 100% load (1 meter distance)		
Standards	IEC 62040-1, IEC 62040-2, IEC 62040-3		
Physical			
Weight	Cabinet	140 Kg	160 Kg
	Power Module	18 Kg	
Dimension: mm (WxDxH)	Cabinet	485 x 900 x 931 - without PDC 485 x 900 x 1149 - with PDC	482x916x1550
	Power Module	436x677x85	

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TECHNICAL SPECIFICATION

Specifications:

60 to 300 kVA UPS

Model	HPM 60/30	HPM 120/30	HPM 180/30	HPM 300/30	
Capacity (kVA/kW)	60/54	120/108	180/162	300/270	
Power Module	30kVA/27kW				
Input					
Phase	380/400/415V (3P+N+G), 50/60Hz				
Voltage Range	304-478Vac (Line-Line) : 100% Load 228-304Vac (Line-Line) : Load de-rated Linearly				
Frequency Range	40Hz-70Hz				
Power Factor	>0.99				
Current Distortion(THDi)	<3% @ 100% Linear load				
Output					
Voltage	380/400/415V (3P+N+G), 50/60Hz				
Voltage Regulation	1% for balanced load, 1.5% for unbalance load				
Voltage Distortion(THDv)	<1%for linear load, <3% for non linear load				
Crest Factor	3:1				
Overload Capability	110% for 60 minute, 125% for 10 minute, 150% for 1 minute				
Battery					
Voltage	+/- 240VDC				
Charger Power	20%* System Power				
Charger Voltage Precision	+/- 1%				
System					
Efficiency	Online Mode – 95.5%				
Display	10.4" touch screen LCD				
IP Class	IP 20				
Interface	Standard: RS232, RS485, USB, Dry Contacts (Programmable) Optional: SNMP, Expansion Dry contact card				
Operation/Storage Temperature	0-40 °C / -25-70 °C				
Relative Humidity	0-95% (Non Condensing)				
Noise	≤ 72dB @ 100% load (1 meter distance)				
Standards	IEC 62040-1, IEC 62040-2, IEC 62040-3				
Physical					
Weight	Cabinet	170	266	205 Kg	305 Kg
	Power Module	34 Kg			
Dimension: mm (WxDxH)	Cabinet	600x980x950	600x980x1400	600x1100x1600	600x1100x2000
	Power Module	460x790x134			

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TECHNICAL SPECIFICATION

Specifications:

100 to 500kVA UPS

Model	HPM 100/ 50	HPM 200/ 50	HPM 300/ 50	HPM 500/ 50	
Capacity (kVA/kW)	100/90	200/180	300/270	500/450	
Power Module	50kVA/45kW*				
Input					
Phase	380/400/415V (3P+N+G), 50/60Hz				
Voltage Range	304-478Vac (Line-Line) : 100% Load 228-304Vac (Line-Line) : Load de-rated Linearly				
Frequency Range	40Hz-70Hz				
Power Factor	>0.99				
Current Distortion (THDi)	<3% @ 100% Linear load				
Output					
Voltage	380/400/415V (3P+N+G), 50/60Hz				
Voltage Regulation	1% for balanced load, 1.5% for unbalance load				
Voltage Distortion (THDv)	<1%for linear load, <3% for non linear load				
Crest Factor	3:1				
Overload Capability	110% for 60 minute, 125% for 10 minute, 150% for 1 minute				
Battery					
Voltage	+/- 240VDC				
Charger Power	20%* System Power				
Charger Voltage Precision	+/- 1%				
System					
Efficiency	Online Mode – 96%				
Display	10.4" color touch screen LCD				
IP Class	IP 20				
Interface	Standard: RS232, RS485, USB, Dry Contacts (Programmable) Optional: SNMP, AS400, Parallel Kit, Battery Cold Start (Standard for 300 & 500kVA), Lightning protection components, Dust Filter, LBS				
Operation/Storage Temperature	0-40 °C / -25-70 °C				
Relative Humidity	0-95% (Non Condensing)				
Noise	≤ 72dB @ 100% load (1 meter distance)				
Standards	IEC 62040-1, IEC 62040-2, IEC 62040-3				
Physical					
Weight	Cabinet	210 Kg	350 Kg	490 Kg	810 Kg
	Power Module	45 Kg			
Dimension: mm (WxDxH)	Cabinet	600x980x1150	650x960x1600	650x960x2000	1300x1100x2000
	Power Module	510x700x178			



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