





Multi Power

















3:3 15-240 kW + redundancy 25-400 kW + redundancy 42-1008 kW + redundancy

HIGHLIGHTS

- Utmost availability
- Ultimate scalability
- Unmatched power density
- Efficiency > 96.5%
- Multiple controls
- Highly flexible
- Advanced comms

The Riello UPS MULTI POWER (MPW and MPX) is the ultimate modular UPS for DATA CENTRES and other CRITICAL LOADs. The MULTI POWER is designed to protect any critical high-density computer and IT environment, whilst achieving maximum availability. The Multi Power 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 Riello UPS Multi Power modular solution can expand its power capability, maintaining the highest levels of power protection, availability, redundancy and investment savings. Digital technology has an increasingly

strong influence on day-to-day activities in almost all sectors and applications





such as healthcare, power generation, social networking, telecommunications, commerce and education.

Subsequently, any activities and equipment related to data storage, processing and transfer should be supplied from the most reliable power source.

Multi Power ensures that a scalable, secure, high quality power supply is available for a variety of critical load applications. The new MPW and MPX Power Modules feature the very latest in UPS technology. With its three-level Neutral Point Clamped (NPC) inverter and Power Factor Corrected (PFC) input control, the Multi Power ensures the highest level of performance in terms of overall efficiency, input power factor and harmonic impact on the supply source.

ADVANCED TECHNOLOGY

To ensure the highest levels of power availability, only the most reliable, cutting edge power components and innovative control technologies have been used in the development of the MPW and MPX power modules and other major aspects of the system. The major power components and assemblies within the Multi Power have been specifically designed and tailor made in conjunction with the respective component manufacturers. This design work ensures that the Multi Power achieves the highest levels of power and performance. In order to optimize the overall performance of the finished product, Riello UPS' R&D team made the decision to specifically design certain power components, including the IGBT modules and associated packages. Rather than using standard components that are readily available in the marketplace, the Multi Power hosts one single optimised and reliable power assembly which guarantees the best availability and overall efficiency. The Power Module itself utilizes a "wireless power principle" meaning that the power interconnection distances between the cards, power components and connectors are shorter. In this way we reduce any risk related to connection problems between the assemblies and also minimize the overall power losses.

SCALABILITY

Multi Power provides a comprehensive, easy to integrate power protection solution for data centres and any critical IT application matching the evolving demands of a networked environment. The end user can easily increase power, redundancy level and battery autonomy by simply adding additional UPS Power Modules (PM) and Battery Units (BU) . Three different cabinets are available to build the system: the Power Cabinets (MPW and MPX type) and the Battery Cabinet (BTC) . The Power Cabinets can accommodate either 15 kW (MPX 15 PM), 25 kW (MPX 25 PM) or 42 kW Power Modules (MPW 42 PM). The available UPS power and redundancy level can expand vertically from:

- 15 to 75 kW in one single Power Cabinet (MPX 130 PWC with MPX 15 PM)
- 25 to 125 kW in one single Power Cabinet (MPX 130 PWC with MPX 25 PM)
- 42 to 294 kW in one single Power Cabinet (MPW 300 PWC with MPW 42 PM).

Up to four complete Power Cabinets can be connected in parallel, increasing the capacity including redundancy respectively from:

- 75 up to 300 kW (with MPX 15 PM)
- 125 up to 500 kW (with MPX 25 PM)
- 294 up to 1176 kW (with MPW 42 PM)
 The Battery Cabinet accommodates
 multiples of 4 Battery Units, with up to 36
 units within a single frame with a maximum
 of 10 Battery Cabinets connected in
 parallel.

In addition, the Multi Power is available as optimized solution providing a Multi Power/Battery combination with the Combo Cabinet (MPW and MPX type). This solution can be utilized within extremely compact areas requiring a small footprint with maximum power density. This modular and reliable solution is perfect for any small to medium business applications. The user might decide to build the Combo solution using three different cabinets:

- MPX 75 CBC cabinet has three slots for PMs and three battery shelves and it can expand vertically from: 15 to 45 kW (with MPX 15 PM) or 25 to 75 kW (with MPX 25 PM);
- MPX 100 CBC cabinet has four slots for PMs and six battery shelves and it can expand vertically from: 15 to 60 kW (with MPX 15 PM) or 25 to 100 kW (with MPX 25 PM);
- MPW 130 CBC cabinet has three slots for PMs and five battery shelves and it can expand vertically from: 42 to 126 kW (with MPW 42 PM).

OUTSTANDING PERFORMANCES

- The advanced technologies deployed within the Multi Power guarantees full rated power even with unity power factor loads (kVA=kW) without any power downgrading even when operating at temperatures up to 40 °C.
- High system efficiency whilst operating in ON LINE double-conversion mode greater than 96.5%. Even when loaded at





Power Module 15 kW - MPX 15 PM Power Module 25 kW - MPX 25 PM



Power Module 42 kW - MPW 42 PM



Battery Unit Array - 4 x BU

only 20%, the Multi Power still achieves an outstanding performance greater than 95%. This superior performance ensures extremely low losses at any load level whilst maintaining a true modular solution for any changing UPS environment in terms power demands.

 Low input harmonic pollution, with near unity input power factor and an extremely wide input voltage operating range (+20/-40%), requiring only a minimum upstream power source rating and subsequent reduced investment costs.

MULTIPLE CONTROLS

The entire Multi Power solution was developed with particular care to ensure operational reliability and prevent any possible failures due to miscommunication between the component parts of the system. The Power Modules are not controlled by one unique microprocessor, but by three - each having different and specific duties. Likewise, the Power Cabinet features two separate microprocessors; one to regulate the overall UPS operations and a separate one to manage communication with the user. In addition, three dedicated communications bus manage and transmit the data. In terms of the monitoring and control of the overall system, all major components are continually temperature monitored within each of the Power Modules. In addition, up to four-temperature sensors are embedded within the Power Cabinet to ensure constant and efficient operation. The Power Module is equipped with three speed controlled fans to ensure there is no energy wasted as the load level applied to the system increases or decreases. At the same time each fan features a so-called third wire (the controller) which immediately warns the microprocessor in the event of a fault; in which case the microprocessor will increase the speed of the remaining operational fans in order to compensate for the cooling deficiency. The Battery Unit also contains dedicated internal protection and a sophisticated control system to monitor the status of each module. This makes it possible to check the voltage/current supplied by each single battery module and therefore identify and warn the user if one of them is defective or beginning to fail. This significantly reduces the risk of a battery pack failure causing a problem to the system by immediately warning the user of the impending issue in order for the appropriate preventive actions to be taken before it is too late.

FLEXIBLE MODULARITY

Multi Power grows both vertically and horizontally from 1 to 20 Power Modules (MPX 15 PM/MPX 25 PM) or 1 to 28 Power Modules (MPW 42 PM) up to 1176 kW (including redundancy) as well as battery units (from 1 cabinet, up to 10), therefore the system is completely scalable in accordance with any business requirements. The Plug & Play modular concept simplifies any power or battery autonomy expansion process, rather than a complete Power Module or Battery unit replacement. The modular hot-swappable principle is further extended to all major elements of the system, resulting in convenient replacement of parts such as fans from within individual Power Modules rather than accessing major components within the cabinet. Furthermore, all Power Modules and critical components are easily accessible from the front of the unit as standard. The system is equipped with a Manual Bypass change over switch and Backfeed control with a mechanical interlock contactor inbuilt, eliminating any maintenance-related downtime

(inbuilt contactor is optional for MPX 130 PWC, MPX 75 CBC and MPX 100 CBC). Combination systems (Combo Cabinet) and Battery Cabinet are supplied with a battery switch and shunt trip to enable remote battery switch operation (battery switch not available for MPX 75 CBC). All these features ensure easy UPS expansion, operation and maintenance; minimizing downtime, decreasing the Mean Time to Repair (MTTR) and removing any possible risk to power continuity, when carried out by authorized service personnel. Flexibility is measured by the ease of both on site installation and the operations undertaken by the user. Input/Output/battery terminal bars are deployed enabling authorized installers to easily terminate the cables either from the top or the bottom of the system (for MPX 130 PWC and MPX 75 CBC bottom entry only). Mechanical supports and cable glands as well as the terminal bar positioning (in the centre of the cabinet) are purposely positioned to reduce the installation time and costs. In addition, in terms of flexibility of the battery installation, whether a conventional



Combo Cabinet MPX 100 CBC (1-4 MPX 15 PM or MPX 25 PM) + 1-6 Battery shelves.

Combo Cabinet MPW 130 CBC (1-3 x MPW 42 PM) + 1-5 Battery Shelves with front door air filter (optional available on all cabinet types).



Battery Cabinet (MPW 170 BTC) with open and closed door.

or modular type system is implemented these can be arranged in two different configurations: centralised (common battery) or distributed (separate battery for each Power/Combo Cabinet). This will ensure the highest level of adaptability for any critical installation and/or economical driving factors.

TURNKEY SOLUTIONS

User may deploy Multi Power cabinets lining up four Cabinets one to each other and arranging locally for input and output cabling. Riello UPS offers as alternative a 500 kVA turn-key solution which consist in two Power Cabinets (MPW 300 PWC) and a Switching Cabinet to tie up the two. It includes AC input/output terminals for site power distribution connection, related joining flexible bars and communication links between Power Cabinets and Switching Cabinet. Switching Cabinet is also supplied with AC input/output/bypass lines breakers as well as with an integral wrap around maintenance bypass. Bypass line is protected with fuses to grant fault discrimination and load protection in case of short circuit downstream.

The breaker set enable to galvanically insulate the single Power Cabinets and to carry out specific maintenance.

Switching Cabinet cable entry is arranged so that user may decide either to access from the bottom front, rear side or top.

This on hand solution simplify the installation activity and contribute to the

overall TCO reduction minimizing, upfront, installation and operating costs.

ADVANCED COMMUNICATIONS

Users can benefit from the different communication systems developed specifically for IT personnel, facilities managers and service engineers.

The 7" LCD touch screen, communication slots, relay cards along with the dedicated service ports, all ensure that the UPS setup, control and monitoring is easy.

The Multi Power LCD touch screen has embedded the follow protocols:

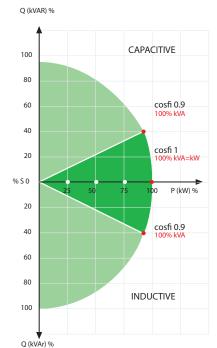
- UDP to communicate with our shutdown software PowerShield
- HTTP and HTTPS to monitor the UPS status using a standard web browser without any additional software.
- SMTP to send emails related to the UPS status, alarms and a power quality daily and weekly report.

In addition, with the network card NetMan 204, Multi Power can be integrated into any building management system and data centre infrastructure (CDIM) with the protocols:

- SNMP v1, v2 and v3.
- Modbus/TCP.

Multi Power is compatible with the very latest operating systems including

- Windows 7, 8, 10
- Hyper-V
- Windows Server 2019, 2016, 2012, and previous versions
- Mac OS X
- Linux
- VMWare ESXi
- Citrix XenServer and many other Unix operating systems.

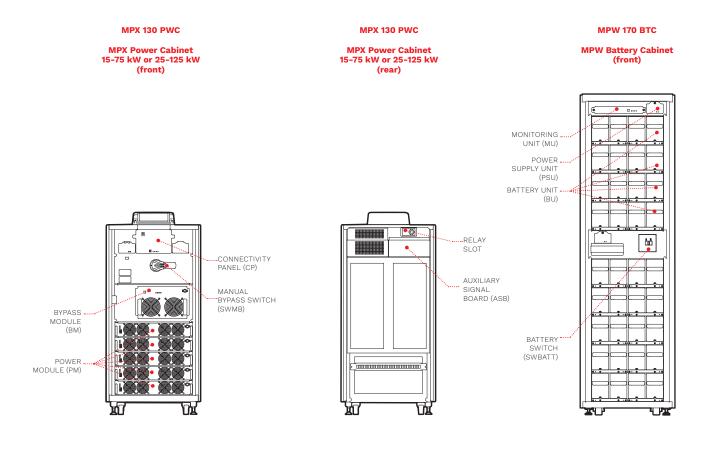


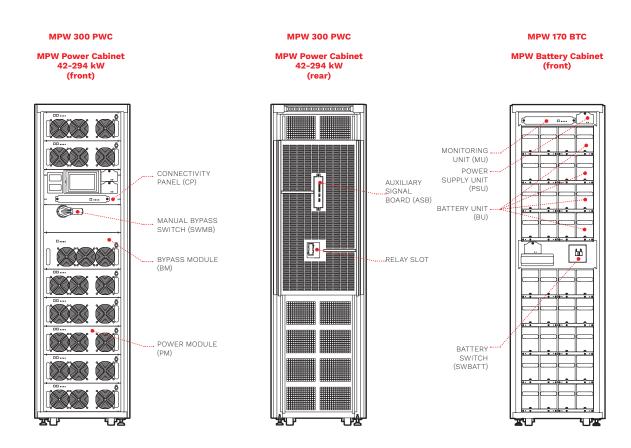


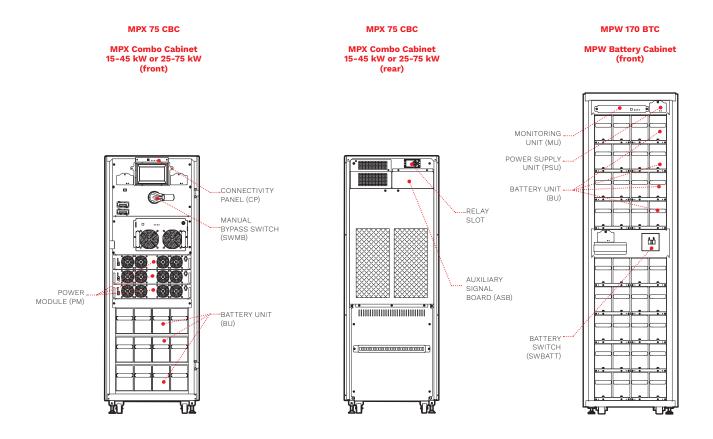
Combo Cabinet MPX 75 CBC (1-3 MPX 15 PM or MPX 25 PM) + 1-3 Battery shelves.

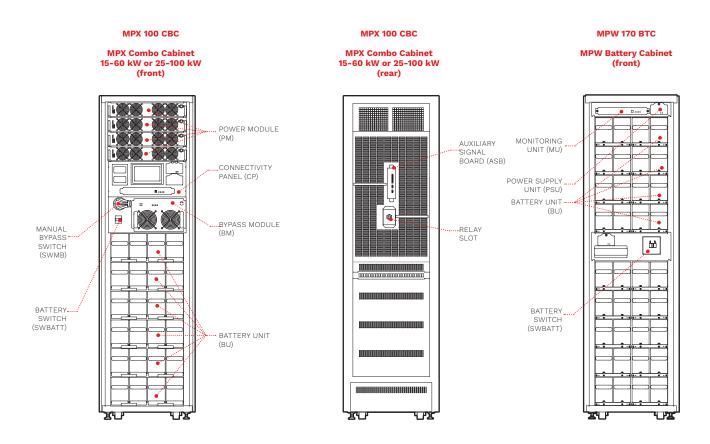


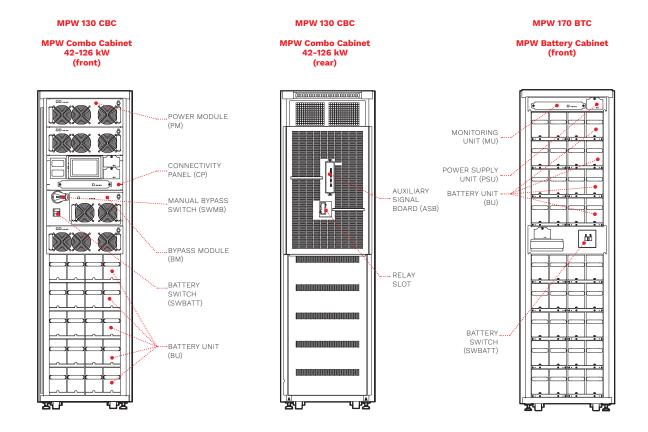
Power Cabinet MPX 130 PWC (1-5 x MPX 15 PM or MPX 25 PM).



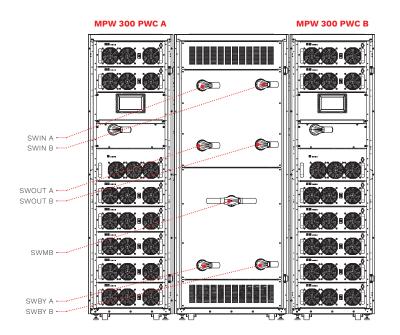


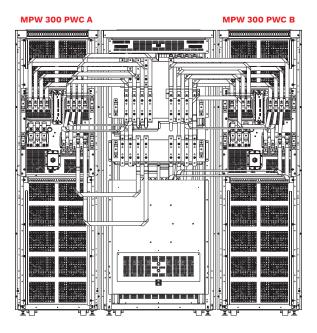


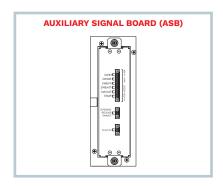


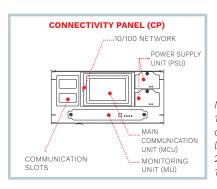


MPW Switching Cabinet 500 + 2 x MPW 300 PWC (front without doors) MPW Switching Cabinet 500 + 2 x MPW 300 PWC (rear without panels)









Note: 1) On MPX 130 PWC connectivity panel layout is different. 2) Second PSU on MPX 130 PWC is optional.

BATTERY CABINETS

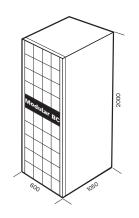
MODELS

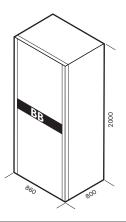
MPW BATTERY CABINET - MPW 170 BTC (MODULAR BATTERY CABINET)

BB 2000 480-V6 / BB 2000 480-V7 BB 2000 480-V8 / BB 2000 480-V9 AB 2000 480-V9 (CONVENTIONAL BATTERY CABINET)

UPS MODELS

Select the Battery configuration according Multi Power range





Dimensions [mm]

OPTIONS

SOFTWARE

PowerShield ³	
PowerNetGuard	
ACCESSORIES	
NETMAN 204	
MULTICOM 302	
MULTICOM 352	
MULTICOM 372	
MULTICOM 384	
MULTICOM 411	
MULTICOM 421	
MULTI I/O	
MULTIPANEL	

PRODUCT	ACCES	SORIES
N - 44 4		

Battery temperature sensor

On front door air filter

IP21 Protection Kit

Programmable relay board

MULTICOM 392

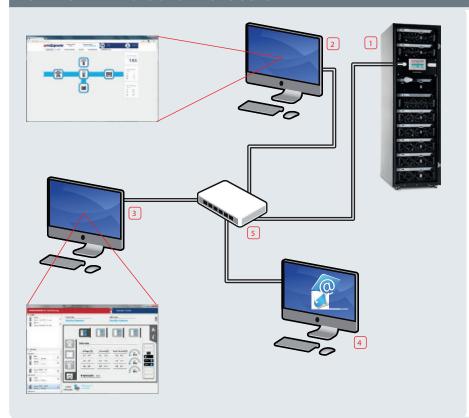
Switching Cabinet

Cold Start

MODEL	Multi Power - from 15 to 294 kW¹							
INPUT								
Rated voltage [V]	380 / 400 / 415 three-phase plus neutral							
Rated frequency [Hz]	50 / 60							
Voltage tolerance [V]	400 ±20% @ full load²							
Frequency tolerance [Hz]	40 - 72							
Power factor	1							
THDI			<3%					
BYPASS				'				
Nominal power [kW]		252 / 126 (According to system power configuration)						
Rated voltage [V]	380 / 400 / 415 three-phase plus neutral							
Voltage tolerance [V]	from 180 (adjustable 180-200) to 264 (adjustable 250-264) referring to Neutral							
Rated frequency [Hz]	50 or 60							
Frequency tolerance [Hz]	±5% (selectable)							
Overload	125% for 10 min.; 150% for 1 min.							
BATTERIES	Modular [¬]	Modular Type (MPW 170 BTC) Conventional Type						
Layout	-		amed BU)	Free	Free Standing Battery cabinet / Shelf			
Battery features	VRLA batteries lined and current measu	Modular type made up by Battery Unit (named BU) VRLA batteries lined up inside BU; Constant voltage and current measuring at BU level; Battery status monitoring via Multi Power LCD display			onventional battery Blocks VRLA Type			
Cabinet lay out description	9 x l	Battery shelves			1 x (20 + 20) Blo	ocks		
Dimensions (WxDxH) [mm]	60	0x1050x2000			860x800x2000			
Weight [kg] (without PM³/BU⁴)		280			250			
OUTPUT								
Rated voltage [V]		380² / 400) / 415 three-ph	nase plu:	s neutral			
Rated frequency [Hz]			50 or 60)				
Voltage stability			±0.5%					
Dynamic stability		EN62040-3 c	lass performar	nce 1 nor	n linear load			
OVERALL SPECIFICATIONS								
Cabinet type	MPX 130 PWC Power Cabinet	MPW 300 PWC Power Cabinet	MPX 75 CI Combo Cab		MPX 100 CBC Combo Cabinet	MPW 130 CBC Combo Cabinet		
Power Module nominal	MPX 15 PM MPX 25 PM	MPW 42 PM	MPX 15 PI MPX 25 P		MPX 15 PM MPX 25 PM	MPW 42 PM		
power [kW] (Named PM)								
power [kW] (Named PM) Solution nominal Power [kW]	75 / 125	294	45 / 75		60 / 100	126		
	75 / 125 1	294 1	45 / 75 1		60 / 100	126 1		
Solution nominal Power [kW]					•			
Solution nominal Power [kW] Output power factor [pf]	1	1	1	PM	1	1 4 3xMPW 42 PM		
Solution nominal Power [kW] Output power factor [pf] Parallelable (up to)	1 4 5xMPX 15 PM	1 4	1 4 3xMPX 15 F 3xMPX 25 I	PM nelves	1 4 4xMPX 15 PM 4xMPX 25 PM	1 4 3xMPW 42 PM		
Solution nominal Power [kW] Output power factor [pf] Parallelable (up to) Cabinet layout description	1 4 5xMPX 15 PM 5xMPX 25 PM	1 4 7xMPW 42 PM	1 4 3xMPX 15 F 3xMPX 25 I +3xBattery sh	PM nelves	1 4 4XMPX 15 PM 4XMPX 25 PM +6XBattery shelves	1 4 3xMPW 42 PM 5xBattery shelves		
Solution nominal Power [kW] Output power factor [pf] Parallelable (up to) Cabinet layout description Dimensions [WxDxH]	1 4 5xMPX 15 PM 5xMPX 25 PM 600x1050x1200	1 4 7xMPW 42 PM 600x1050x2000	1 4 3xMPX 15 F 3xMPX 25 I +3xBattery sh 600x1050x1	PM nelves	1 4 4xMPX 15 PM 4xMPX 25 PM +6xBattery shelves 600x1050x2000	1 4 3xMPW 42 PM 5xBattery shelves 600x1050x2000		
Solution nominal Power [kW] Output power factor [pf] Parallelable (up to) Cabinet layout description Dimensions [WxDxH] Weight [kg] (without PM³/BU⁴) System Noise Level at 1 m	1 4 5xMPX 15 PM 5xMPX 25 PM 600x1050x1200 145	1 4 7xMPW 42 PM 600x1050x2000 300	1 4 3xMPX 15 F 3xMPX 25 I +3xBattery sh 600x1050x1 190	PM nelves 600	1 4 4xMPX 15 PM 4xMPX 25 PM +6xBattery shelves 600x1050x2000 350	1 4 3xMPW 42 PM 5xBattery shelves 600x1050x2000 340		
Solution nominal Power [kW] Output power factor [pf] Parallelable (up to) Cabinet layout description Dimensions [WxDxH] Weight [kg] (without PM³/BU⁴) System Noise Level at 1 m [dBA±2]	1 4 5xMPX 15 PM 5xMPX 25 PM 600x1050x1200 145	1 4 7xMPW 42 PM 600x1050x2000 300	1 4 3xMPX 15 F 3xMPX 25 I +3xBattery sh 600x1050x1 190 <63	PM nelves 600	1 4 4xMPX 15 PM 4xMPX 25 PM +6xBattery shelves 600x1050x2000 350 <64	1 4 3xMPW 42 PM 5xBattery shelves 600x1050x2000 340		
Solution nominal Power [kW] Output power factor [pf] Parallelable (up to) Cabinet layout description Dimensions [WxDxH] Weight [kg] (without PM³/BU⁴) System Noise Level at 1 m [dBA±2] ECO Mode Efficiency	1 4 5xMPX 15 PM 5xMPX 25 PM 600x1050x1200 145	1 4 7xMPW 42 PM 600x1050x2000 300 <68 IP20 finger proof (1 4 3xMPX 15 F 3xMPX 25 I +3xBattery sh 600x1050x1 190 <63	PM nelves 600 600 600 600 600 600 600 600 600 60	1 4 4xMPX 15 PM 4xMPX 25 PM +6xBattery shelves 600x1050x2000 350 <64 rs open or close)	1 4 3xMPW 42 PM 5xBattery shelves 600x1050x2000 340		
Solution nominal Power [kW] Output power factor [pf] Parallelable (up to) Cabinet layout description Dimensions [WxDxH] Weight [kg] (without PM³/BU⁴) System Noise Level at 1 m [dBA±2] ECO Mode Efficiency Cabinet IP rating	1 4 5xMPX 15 PM 5xMPX 25 PM 600x1050x1200 145	1 4 7xMPW 42 PM 600x1050x2000 300 <68 IP20 finger proof (1 4 3xMPX 15 F 3xMPX 25 I +3xBattery sh 600x1050x1 190 <63 Up to 999 either with cab	PM nelves 600 % inet doo or bott	1 4 4xMPX 15 PM 4xMPX 25 PM +6xBattery shelves 600x1050x2000 350 <64 rs open or close)	1 4 3xMPW 42 PM 5xBattery shelves 600x1050x2000 340		
Solution nominal Power [kW] Output power factor [pf] Parallelable (up to) Cabinet layout description Dimensions [WxDxH] Weight [kg] (without PM³/BU⁴) System Noise Level at 1 m [dBA±2] ECO Mode Efficiency Cabinet IP rating Cable input	1 4 5xMPX 15 PM 5xMPX 25 PM 600x1050x1200 145	1 4 7xMPW 42 PM 600x1050x2000 300 <68 IP20 finger proof (1 4 3xMPX 15 F 3xMPX 25 I +3xBattery sh 600x1050x1 190 <63 Up to 999 either with cab	PM nelves 600 600 600 600 or bott 5	1 4 4xMPX 15 PM 4xMPX 25 PM +6xBattery shelves 600x1050x2000 350 <64 rs open or close)	1 4 3xMPW 42 PM 5xBattery shelves 600x1050x2000 340		
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Solution nominal Power [kW] Output power factor [pf] Parallelable (up to) Cabinet layout description Dimensions [WxDxH] Weight [kg] (without PM³/BU⁴) System Noise Level at 1 m [dBA±2] ECO Mode Efficiency Cabinet IP rating Cable input Colour Ambient temp. for the UPS Recommended temperature for battery life	1 4 5xMPX 15 PM 5xMPX 25 PM 600x1050x1200 145	1 4 7xMPW 42 PM 600x1050x2000 300 <68 IP20 finger proof (a	1 4 3xMPX 15 F 3xMPX 25 I +3xBattery sh 600x1050x1 190 <63 Up to 999 either with cab side either top RAL 9009 0 °C - +40 +20 °C - +29	PM nelves 600 600 600 or bott 5 °C 600 600 600 600 600 600 600 600 600 60	1 4 4xMPX 15 PM 4xMPX 25 PM +6xBattery shelves 600x1050x2000 350 <64 rs open or close)	1 4 3xMPW 42 PM 5xBattery shelves 600x1050x2000 340		
Solution nominal Power [kW] Output power factor [pf] Parallelable (up to) Cabinet layout description Dimensions [WxDxH] Weight [kg] (without PM³/BU⁴) System Noise Level at 1 m [dBA±2] ECO Mode Efficiency Cabinet IP rating Cable input Colour Ambient temp. for the UPS Recommended temperature for battery life Range of relative humidity	1 4 5xMPX 15 PM 5xMPX 25 PM 600x1050x1200 145 <65 European directive Directive Standards: \$	1 4 7xMPW 42 PM 600x1050x2000 300 <68 IP20 finger proof (a	1 4 3xMPX 15 F 3xMPX 25 I +3xBattery sh 600x1050x1 190 <63 Up to 999 either with cab side either top RAL 9000 0 °C - +40 +20 °C - +20 5-95% non-con 4000 max alt voltage Directive EMC IEC EN 620	PM nelves 600 600 600 600 600 600 600 600 600 60	1 4 4xMPX 15 PM 4xMPX 25 PM 4cxMPX 25 PM 46xBattery shelves 600x1050x2000 350 <64 rs open or close) om 014/30/EU electromage category C2; RoHS co	1 4 3xMPW 42 PM 5xBattery shelves 600x1050x2000 340 <64 gnetic compatibility mpliant Classification		

 ¹ Including Redundancy
 ² For wider tolerance conditions apply.
 ³ PM = Power Module (either referring to MPX 15 PM, MPX 25 PM or MPW 42 PM)
 ⁴ BU = Battery Unit

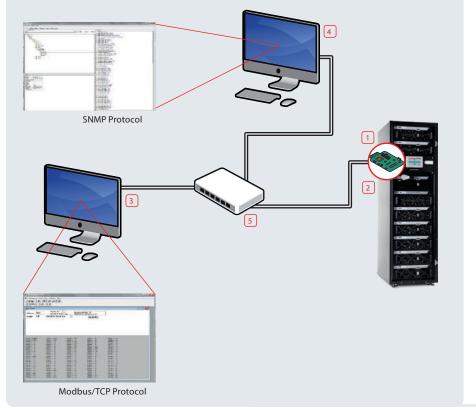
MULTI POWER EMBEDDED PROTOCOLS



1 MPW / MPX
2 Web Browser
3 PowerShield ³
4 Mail Server
5 Ethernet Switch

Ethernet

MULTI POWER PROTOCOLS ADDING NETMAN 204 CARD



1 MPW / MPX
2 NetMan 204 board
3 Modbus/TCP Manager
4 SNMP Manager
5 Ethernet Switch
Ethernet

riello ups

