





















10-800 kVA three/three-phase 10-100 kVA three/single-phase





Master Plus is an on-line double conversion UPS (VFI SS 111 in accordance with IEC EN 62040-3) with a transformer isolated inverter. Master Plus has a compact foot print and high quality output to provide the ultimate power protection for "mission critical" applications: data processing, telecommunications, industrial processes, security and electro-medical

The **Master Plus** range includes three-phase output models from 10 to 800kVA, and single-phase output models from 10-100kVA - all with a three phase input. Models from 10-200kVA are available with a 6 or 12

From 100kVA to 400kVA Master Plus is available in a HIP (High Input Performance) format with an IGBT-based rectifier offering even lower input harmonic distortion (THDi) and unity input power factor.

From 500kVA to 800kVA Master Plus has a 12-pulse rectifier as standard.

EASY SOURCE

Master Plus technology removes the problems of over sizing upstream power sources, whilst improving load power factors and current harmonics. The UPS features the latest input-current absorption techniques including progressive rectifier start-up and the option to reduce battery charging currents. These features make **Master Plus** one of the most generator and environmentally friendly UPS available.



POWER CONTINUITY

Riello UPS has been researching and developing UPS technologies for critical applications, worldwide and for many years. Riello UPS solutions are flexible, offering the highest levels of availability, whilst achieving low total cost of ownership.

Riello UPS are designed to be resilient, with key component inbuilt redundancy. The UPS are designed for ease of installation and maintenance, with top entry cable cabinet options, and simple but secure access to connection terminals and communications interfaces.



MAXIMUM LEVELS OF RELIABILITY AND AVAILABILITY

Distributed or centralised parallel up to 8 units per backup (N+1) or power parallel. A parallel between models with different power levels is possible. **Hot System Expansion (HSE)**: HSE allows the insertion of a new UPS within an existing system, without the need to switch off the UPSs which are already operating or switch them to bypass mode.

This guarantees maximum load protection, even during maintenance and enlargement.

Maximum levels of availability also in the event of an interruption to the parallel bus cable: the system is "FAULT TOLERANT". It is not affected by faults with the connection cables and continues to power the load without a continuity solution, signalling the anomaly with an alarm.

High Efficiency Parallel System (HEPS): this is the system which optimises the efficiency of the system in parallel, according to the power required by the load at that moment. The N+1 redundancy is nevertheless guaranteed, but each UPS operating in parallel operates at the best possible load level in order to achieve the highest overall efficiency.

OPTIONS

• UGS - UPS Group Synchroniser

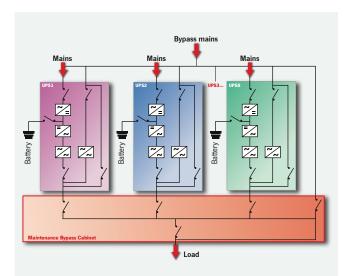
Allows 2 or more UPS not in parallel to remain synchronised even during a power failure.

The UGS also enables a RIELLO UPS to be synchronised with an independent power source, even of a different power rating.

• PSJ - Parallel Systems Joiner

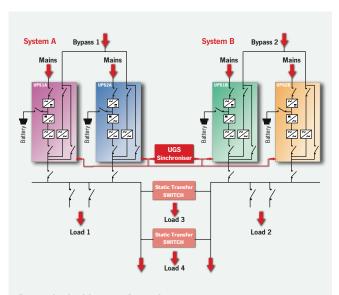
Connects two UPS groups operating in parallel configurations through a power coupling switch.

The Slave UPS Group is permanently synchronised to the Master group. Should one of the UPS in one of the parallel groups fail, the PSJ will automatically connect the remaining UPS to the other group via an external bypass.



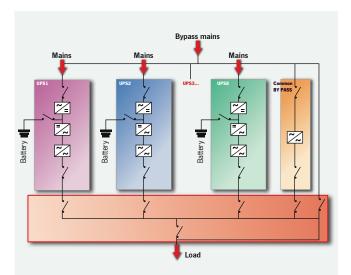
Parallel configuration of up to 8 units with distributed bypass

Parallel architecture which guarantees the redundancy of the power source. + Flexibility and modularity



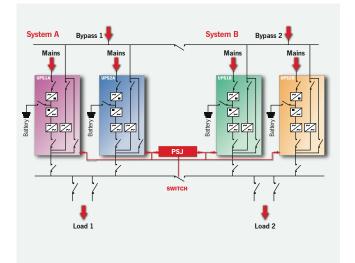
Dynamic dual bus configuration

Solution which ensures redundancy until the distribution of the power supply to the loads + **Downstream fault discrimination**



Parallel configuration of up to 8 units with common bypass

Parallel architecture which guarantees the redundancy of the power source, with autonomous bypass management. **+ Selectivity downstream faults in bypass mode**



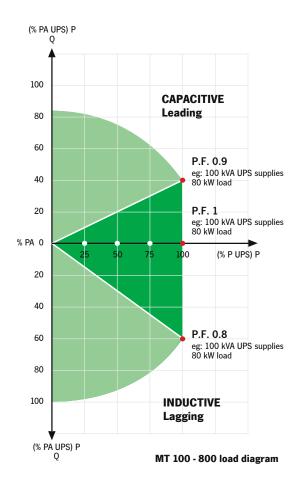
Dual bus system configuration

Solution which guarantees the redundancy of the power supply even during maintenance + High levels of availability and redundancy



FLEXIBILITY

Master Plus is suitable for a wide range of applications including IT and the most demanding industrial environments. The UPS is suitable for power capacitive loads such as blade servers, without any reduction in active power, from 0.9 leading to 0.8 lagging. With a broad range of accessories and options, complex configurations and system architectures can be achieved to guarantee maximum power availability and the option to add new UPS without interruption to existing users. Using the Riello UPS Group Synchroniser (UGS) and Parallel Systems Joiner (PSJ) sophisticated inter group parallel and redundant systems can be achieved to provide the highest possible levels of resilience and availability.



BATTERY CARE SYSTEM: MAXIMUM LIFETIME POTENTIAL

Traditionally, when a mains supply is present the UPS charges its batteries. Battery power is used for the inverter should the input supply fail. Efficient battery management and care is therefore essential to the overall performance of the UPS in an emergency.

The Master Plus Battery Care System consists of a range of features designed to provide optimum performance and enhanced operating life:

- Dual level charging regime to optimise recharge currents and lower recharge times
- Temperature compensation and deep discharge protection to reduce overall battery aging

- Charge blocking system to reduce electrolyte consumption and lengthen the life of VRLA batteries
- Predictive battery testing to spot potential battery deterioration and failure

Master Plus is also compatible with different battery technologies: open-vented lead acid and AGM and Gel VRLA, NiCd.

EASE OF INSTALLATION

Master Plus is compact with a foot print of only 0.64 m² for a 200kVA system. Front access to internal assemblies and top panel ventilation make space allocation within confined data processing or plant rooms easy. Master Plus can be placed against a wall as there is no requirement for rear or side panel access for maintenance or ventilation.

SPECIFIC SOLUTIONS

The UPS can be adapted to your requirements. Please contact TEC to discuss specific applications and options.

ADVANCED COMMUNICATION

- Compatible with TeleNetGuard for remote maintenance
- Advanced, multi-platform communication for all operating systems and network environments: PowerShield³ monitoring and shut-down software included, for Windows 2008, Vista, 2003, XP; Mac OS X, Linux, Novell and most popular Unix operating systems. The UPS is supplied with a cable for direct connection to the PC (Plug and Play)
- Double RS232 serial port
- Installation slot for an Emergency Power Off (EPO) interface to allow the UPS to be switched off remotely in an emergency.
- Generator interface: enables desynchronisation of the UPS output from a generator supply which may be subject to phase and frequency variations. The interface also enables more economic use of the battery charger.







POMER (MAY) 10 15 20 30 40 60 80 10 10 10 10 10 10 1		new new new new new new new					new			
Noting violage Notin	MODELS	MM 10*	MM 15*	MM 20*	MM 30	MM 40	MM 60	MM 80	MM 100	
Nominal voltage 380 - 400 - 415 Volt three phase Voltage tolerance Voltage tolerance <th< td=""><td>POWER (kVA)</td><td>10</td><td colspan="6">10 15 20 30 40 60 80</td><td>100</td></th<>	POWER (kVA)	10	10 15 20 30 40 60 80						100	
Voltage tolerance	INPUT									
Frequency	Nominal voltage				380 - 400 - 415	Vac three-phase	е			
Soft start Soft start Soft start Femilited frequency tolerance Sack Feed protection; separable byte substitute of protection; separ	Voltage tolerance				400 V + 2	20% /- 25%				
Permitted frequency tolerance Standard features Standard fe	Frequency				45 ÷	65 Hz				
Back Feel protection; separable bypase. BATTERIES Type Lead, flooded and VRLA AGM / GEL; NCUS AC ripple Separative compensation To 20 VR°C Typical charging current Typical charging current </td <td>Soft start</td> <td></td> <td></td> <td></td> <td>0 ÷ 100% in 3</td> <td>30'' (selectable)</td> <td></td> <td></td> <td></td>	Soft start				0 ÷ 100% in 3	30'' (selectable)				
BATTERIES Type 1	Permitted frequency tolerance			± 2% (selec	ctable from ± 1%	to \pm 5% from the	e front panel)			
Type Leady Holder AdM / GEL; VISION SIGN SIGN SIGN SIGN SIGN SIGN SIGN SIG	Standard features			Back	Feed protection	; separable bypa	ss line			
AC ripple Substrate compensation Substra	BATTERIES									
Temperature compensation 10 15 20 30 40 60 80 10 60 80 80 10 80 80 80 80 8	Туре			Lea	d, flooded and V	RLA AGM / GEL;	NiCd			
Typical charging current OUTPUT COUTPUT Rated power (k/VA) 10 15 20 30 40 60 80 10 Active power (kW) 9 13,5 18 27 36 54 72 9 Number of phases Typical colspan="8">Typical colspan="8">Ty	AC ripple				<	1%				
OutPUT Rated power (kVA) 10 15 20 30 40 60 80 10 Active power (kW) 9 13,5 18 27 36 54 72 9 Number of phases Number of phases Nominal voltage Static stability Voltage distortion Crest factor (lipeak/lrms) Static stability on battery mode Trequency stability on battery mode Trequency stability on battery mode Trequency Stability on battery mode Trequency Stability on battery mode Trequency Stability on battery mode Trequency Stability on battery mode Trequency Stability on battery mode Trequency Stability on battery mode Trequency Stability on battery mode Trequency Stability on battery mode Trequency Stability on battery mode Trequency Stability S	Temperature compensation				-0.5	Vx°C				
Rated power (kVA) 10 15 20 30 40 60 80 10 Active power (kW) 9 13,5 18 27 36 54 72 9 Number of phases 1 Nominal voltage 220 - 230 - 240 Vac single-phase Static stability 1 ± 1% Voltage distortion Crest factor (Ipeak/Irms) 3.0 ms Frequency stability on battery mode 5.0 or 60 Hz (selectable) Frequency 5.0 or 60 Hz (selectable) Overload 200 220 230 290 340 520 66 ENVIRONMENTAL Weight (kg) 200 220 230 290 340 440 520 66 Dimensions (hwd) (mm) 1400 x 525 x 74 1400 x 52 Remote signalling Colspan="4">20 <	Typical charging current				0.2	x C10				
Active power (kW) 9 13,5 18 27 36 54 72 9 Number of phases Number of phases Nominal voltage Static stability Static s	OUTPUT									
Number of phases Image: Section 10 ms Static stability Frequency stability on battery mode Frequency Section (lipeak)/Irms) Frequency stability on battery mode Frequency stability on battery mode Frequency Stability on battery mode Frequency Overload Frequency Set Vision 10°; 125% for 10°; 150% for 1° ENVIRONMENTAL Weight (kg) 200 220 230 290 340 440 520 66 Dimensions (liwd) (mm) 1400 x 555 x 74° 1400 x 555 x 74° 1400 x 555 x 74° 1400 x 550 x 74° 1400 x 74° <th colspa<="" td=""><td>Rated power (kVA)</td><td>10</td><td>15</td><td>20</td><td>30</td><td>40</td><td>60</td><td>80</td><td>100</td></th>	<td>Rated power (kVA)</td> <td>10</td> <td>15</td> <td>20</td> <td>30</td> <td>40</td> <td>60</td> <td>80</td> <td>100</td>	Rated power (kVA)	10	15	20	30	40	60	80	100
Nominal voltage	Active power (kW)	9	13,5	18	27	36	54	72	90	
Static stability Dynamic stability Voltage distortion Crest factor (lpeak/Irms) Frequency stability on battery mode Frequency Frequency Overload BNVIRONMENTAL Weight (kg) 200 220 230 290 340 440 520 66 Dimensions (hwd) (mm) 1400 x 555 x 74 1400 x 555	Number of phases	1								
Dynamic stability ± 5% in 10 ms Voltage distortion Cerest factor (Ipeak/Irms) Frequency stability on battery mode ± 50 or 60 Hz (selectable) Frequency Doverload ± 10 % fo0'; 125% for 10'; 150% for 1' ENVIRONMENTAL Weight (kg) 200 220 230 290 340 440 520 68 Dimensions (hwd) (mm) ± 1400 x 555 x 745 1400 x 820 x 740 1400 x 82 Remote signalling ± 120 x 555 x 745 Voltage-free contacts Communication ± 120 x 555 x 745 Voltage-free contacts EPO and bypass Communication Operating temperature ± 20 x 120 x	Nominal voltage				220 - 230 - 240	Vac single-phas	e			
Voltage distortion Crest factor (Ipeak/Irms) 3:1 Frequency stability on battery mode 0.05% Frequency 50 or 60 Hz (selectable) Overload 110% for 60°; 125% for 10°; 150% for 1° ENVIRONMENTAL Weight (kg) 200 220 230 290 340 440 520 68 Dimensions (hwd) (mm) 1400 x 555 x 740 1400 x 50 69 Remote signalling Voltage-free contacts 1400 x 50 1400 x 50 Remote commands EPO and bypass Communication	Static stability	± 1%								
Crest factor (Ipeak/Irms) 3:1 Frequency stability on battery mode To 0.05% Frequency Coverload 1111% for 60'; 125% for 10'; 150% for 1' ENVIRONMENTAL Weight (kg) 200 220 230 290 340 440 520 63 Dimensions (hwd) (mm) 200 220 230 290 340 440 520 63 Remote signalling 1400 x 555 x 740 1400 x 555 x 740 1400 x 556 x 740 1400 x 566 x 740 x 740 1400 x 566 x 740 x 740 1400 x 566 x 740 x 740 x 740 1400 x 566 x 740 x 740 x 740 1400 x 566 x 740 x 740 x 740 x 740 1400 x 740	Dynamic stability				± 5% i	n 10 ms				
Frequency stability on battery mode Frequency Overload Diventify (kg) Dimensions (hwd) (mm) Remote signalling Communication Operating temperature Colour Noise Frequency Solve to battery mode Solve to the property of the prope	Voltage distortion			< 1% v	vith linear load /	< 3% with no-lin	ear load			
Frequency Overload 110% for 60'; 125% for 10'; 150% for 1' ENVIRONMENTAL Weight (kg) 200 220 230 290 340 440 520 63 Dimensions (hwd) (mm) 1400 x 555 x 74∪ 1400 x 555 x 74∪ 1400 x 50 740 1400 x 50 Remote signalling Voltage-free contacts EPO and bypass Communication double RS232 + remote contacts + 2 communication interface slots Operating temperature 0°C / +40°C Relative humidity < 95% non condensing	Crest factor (Ipeak/Irms)				3	B:1				
Overload 110% for 60'; 125% for 10'; 150% for 1' ENVIRONMENTAL Weight (kg) 200 220 230 290 340 440 520 65 Dimensions (hwd) (mm) 1400 x 555 x 74∪	Frequency stability on battery mode				0.	05%				
ENVIRONMENTAL Weight (kg) 200 220 230 290 340 440 520 68 Dimensions (hwd) (mm) 1400 x 555 x 740 1400 x 555 x 740 <td cols<="" td=""><td>Frequency</td><td></td><td></td><td></td><td>50 or 60 H</td><td>z (selectable)</td><td></td><td></td><td></td></td>	<td>Frequency</td> <td></td> <td></td> <td></td> <td>50 or 60 H</td> <td>z (selectable)</td> <td></td> <td></td> <td></td>	Frequency				50 or 60 H	z (selectable)			
Weight (kg) 200 220 230 290 340 440 520 61 Dimensions (hwd) (mm) 1400 x 555 x 740 1400 x 555 x 740 1400 x 50 1400 x 50 Remote signalling Voltage-free contacts EPO and bypass Communication double RS232 + remote contacts + 2 communication interface slots Operating temperature 0°C / +40°C Relative humidity < 95% non condensing	Overload									
Dimensions (hwd) (mm) 1400 x 555 x 740 1400 x 800 x 740 1400 x	ENVIRONMENTAL									
Remote signalling Remote commands Communication Operating temperature Relative humidity Colour Noise Voltage-free contacts EPO and bypass Communication interface slots O°C / +40°C 440°C 495% non condensing Light grey RAL 7035 Noise 54 62 66 Ook of the contacts of the contact of the cont	Weight (kg)	200	220	230	290	340	440	520	650	
Remote commands Communication Operating temperature Relative humidity Colour Noise 54 Communication Separation double RS232 + remote contacts + 2 communication interface slots O°C / +40°C	Dimensions (hwd) (mm)	1400 x 555 x 740 1400 x 800 x 740 1400 x 55					1400 x 555 x 740			
Communication double R\$232 + remote contacts + 2 communication interface slots Operating temperature Relative humidity Colour Light grey RAL 7035 Noise 54 62 662 668	Remote signalling	Voltage-free contacts								
Operating temperature 0°C / +40°C Relative humidity < 95% non condensing Colour Light grey RAL 7035 Noise 54 62 62 62 6	Remote commands	EPO and bypass								
Relative humidity < 95% non condensing Colour Light grey RAL 7035 Noise 54 62 62 62 6	Communication	double RS232 + remote contacts + 2 communication interface slots								
Colour Light grey RAL 7035 Noise 54 62 62 62	Operating temperature	0°C / +40°C								
Noise 54 62 62 6	Relative humidity	< 95% non condensing								
	Colour	Light grey RAL 7035								
Protection rating IP20	Noise	54 62 62 63								
	Protection rating	IP20								
Efficiency Smart Mode Up to 98%	Efficiency Smart Mode	Up to 98%								
Compliance European Directives: L V 2006/95/CE; EMC 2004/108/EC; Safety IEC EN 62040-1; EMC IEC EN 62040-2 C2	Compliance	European Directives: L V 2006/95/CE; EMC 2004/108/EC; Safety IEC EN 62040-1; EMC IEC EN 62040-2 C2								
Classification according to IEC 62040-3 (Voltage Frequency Independent) VFI - SS - 111	Classification according to IEC 62040-3	(Voltage Frequency Independent) VFI - SS - 111								

^{*} Also available with internal batteries

N.B.: Consult us for the availability



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MODELS	MP 10*	MP 15*	MP 20*	MP 30	MP 40	MP 60	MP 80
POWER (kVA)	10	15	20	30	40	60	80
INPUT							
Nominal voltage			380 -	400 - 415 Vac three	e-phase		
Voltage tolerance				400 V + 20% /- 25	%		
Frequency				45 ÷ 65 Hz			
Soft start			0 ÷	100% in 30'' (selec	table)		
Permitted frequency tolerance			± 2% (selectable fr	om ± 1% to ± 5% fr	om the front panel)	
Standard features			Back Feed p	rotection; separabl	e bypass line		
BATTERIES							
Туре			Lead, flood	ed and VRLA AGM	/ GEL; NiCd		
AC ripple				< 1%			
Temperature compensation				-0.5 Vx°C			
Typical charging current				0.2 x C10			
OUTPUT							
Rated power (kVA)	10	15	20	30	40	60	80
Active power (kW)	9	13,5	18	27	36	54	72
Number of phases	3 + N						
Nominal voltage		380 - 400 - 415 Vac three-phase + N					
Static stability	± 1%						
Dynamic stability		± 5% in 10 ms					
Voltage distortion			< 1% with line	ar load / < 3% with	no-linear load		
Crest factor (Ipeak/Irms)				3:1			
Frequency stability on battery mode				0.05%			
Frequency			50	or 60 Hz (selectal	ole)		
Overload		110% for 60'; 125% for 10'; 150% for 1'					
ENVIRONMENTAL							
Weight (kg) without batteries	210 *	220 *	230	280	330	450	600
Dimensions (hwd) (mm)	1400 x 555 x 740 1400 x 800 x 740					800 x 740	
Remote signalling	Voltage-free contacts						
Remote commands	EPO and bypass						
Communication	double RS232 + remote contacts + 2 communication interface slots						
Operating temperature	0°C / +40°C						
Relative humidity	< 95% non condensing						
Colour	Light grey RAL 7035						
Noise	54 60 62						
Protection rating	IP20						
Efficiency Smart Mode	Up to 98%						
Compliance	European Directives: L V 2006/95/CE; EMC 2004/108/EC; Safety IEC EN 62040-1; EMC IEC EN 62040-2 C2						
Classification according to IEC 62040-3	(Voltage Frequency Independent) VFI - SS - 111						

^{*} Also available with internal batteries

N.B.: Consult us for the availability



MODELS	MP 100	MP 120	MP 160	MP 200		
POWER (kVA)	100	100 120 160 200				
INPUT						
Nominal voltage		380 - 400 - 415	Vac three-phase			
Voltage tolerance		400 V + 20% /- 25%				
Frequency	45 ÷ 65 Hz					
Soft start		0 ÷ 100% in 3	0'' (selectable)			
Permitted frequency tolerance		\pm 2% (selectable from \pm 1% t	to \pm 5% from the front panel)			
Standard features		Back Feed protection;	separable bypass line			
BATTERIES						
Туре		Lead, flooded and VR	RLA AGM / GEL; NiCd			
AC ripple		<	1%			
Temperature compensation		-0.5	Vx°C			
Typical charging current		0.2 x	C10			
OUTPUT						
Rated power (kVA)	100	120	160	200		
Active power (kW)	80	96	128	160		
Number of phases	3 + N					
Nominal voltage	380 - 400 - 415 Vac three-phase + N					
Static stability	± 1%					
Dynamic stability	± 5% in 10 ms					
Voltage distortion	< 1% with linear load / < 3% with no-linear load					
Crest factor (Ipeak/Irms)	3:1					
Frequency stability on battery mode	0.05%					
Frequency	50 or 60 Hz (selectable)					
Overload	110% for 60'; 125% for 10'; 150% for 1'					
ENVIRONMENTAL						
Weight (kg)	640 650 770 810					
Dimensions (hwd) (mm)	1900 x 800 x 800					
Remote signalling	Voltage-free contacts					
Remote commands	EPO and bypass					
Communication	double RS232 + remote contacts + 2 communication interface slots					
Operating temperature	0°C / +40°C					
Relative humidity	< 95% non condensing					
Colour	Light grey RAL 7035					
Noise	63 ÷ 68 dBA at 1 m					
Protection rating	IP20					
Efficiency Smart Mode	Up to 98%					
Compliance	European Directives: L V 2006/95/CE; EMC 2004/108/EC; Safety IEC EN 62040-1; EMC IEC EN 62040-2 C2					
Classification according to IEC 62040-3	(Voltage Frequency Independent) VFI - SS - 111					



MODELS	12 MP 500	12 MP 600	12 MP 800		
POWER (kVA)	500	600	800		
INPUT					
Nominal voltage	380 - 400 - 415 Vac three-phase				
Voltage tolerance	400 V ± 20%				
Frequency	45 ÷ 65 Hz				
Power factor	> 0.93 in HC version				
Current distortion		< 3% in HC version			
Soft start		0 ÷ 100% in 30" (selectable)			
Permitted frequency tolerance	± 2% (selectable from \pm 1% to \pm 5% from the front p	panel)		
Standard features		Back Feed protection; separable bypass line			
BATTERIES					
Туре		Lead, flooded and VRLA AGM / GEL; NiCd			
AC ripple		< 1%			
Temperature compensation		-0.5 Vx°C			
Typical charging current		0.2 x C10			
OUTPUT					
Rated power (kVA)	500	600	800		
Active power (kW)	400	480	640		
Number of phases		3 + N			
Nominal voltage	380 - 400 - 415 Vac three-phase + N				
Static stability	± 1%				
Dynamic stability	± 5% in 10 ms				
Voltage distortion	< 1% with linear load / < 3% with no-linear load				
Crest factor (Ipeak/Irms)	3:1				
Frequency stability on battery mode	0.05%				
Frequency	50 or 60 Hz (selectable)				
Overload	110% for 60'; 125% for 10'; 150% for 1'				
ENVIRONMENTAL					
Weight (kg)	3600	4000	5300		
Dimensions (hwd) (mm)	1900 x 3200 x 1000 1900 x 4400 x 10				
Remote signalling	Voltage-free contacts				
Remote commands	EPO and bypass				
Communication	double RS232 + remote contacts + 2 communication interface slots				
Operating temperature	0°C / +40°C				
Relative humidity	< 95% non condensing				
Colour	Light grey RAL 7035				
Noise	< 75 dBA at 1 m				
Protection rating	IP20				
Efficiency Smart Mode	Up to 98%				
Compliance	European Directives: L V 2006/95/CE; EMC 2004/108/EC; Safety IEC EN 62040-1; EMC IEC EN 62040-2 C2				
Classification according to IEC 62040-3	(Voltage Frequency Independent) VFI - SS - 111				

OPTIONS	
Isolation transformer module	Interface for generator
UPS Group Syncroniser (see UGS)	Closed Loop parallel kit option (to be ordered with the UPS)
Hot connection device (see PSJ)	Empty or full battery cabinets for prolonged runtime



BATTERY BOX Models	BB 396-J8 / BB 396-J9 BB 396-K1 / BB 396-K2	AB 480-A0 / BB 480-J8 BB 480-J9 / BB 480-K1 BB 480-K2	BB 384-38C	384-65D / 384-80D 384-100D / 384-120D
UPS MODELS	MP 100-200 MM 100	12MP 500-800 MP 100-400 HIP	MP 10-60	MP 10-80
Dimensions (mm) h x w x d	360	0061	1400	1400

CABINETS WITH TOP CABLE ENTRY	TE 270	TE 400 C	TE 400 L
UPS MODELS	MP 100-200 / MM 100	MP 100 HIP / MP 250 HIP	12 MP 500-800 / MP 300-400 HIP
Dimensions (mm) h x w x d	270. 800	400	1000

