



EATON

Power Business Worldwide

SPECIFICATION UPS EATON

SOHO, PC Applications, Point of sales (POS)

5L	PART NUMBER	VA/WATTS	INPUT	OUTPUT	OUTLET QUANTITY	EXTENDED BATTERY	FORM	COMMS	STANDARD WARRANTY	ADDITIONAL FEATURES
	5L650ASE / 5L650UNI	650/360	Fixed Cord	Universal	UNI (2)	No	Tower	USB	2 years (2 years battery)	<ul style="list-style-type: none"> Localized Outlets Shutdown software Automatic Voltage Regulation (AVR) Attractive Packaging
	5L650PH	650/360		Nema	Nema (4)					
	5L600TH	600/360		Universal	Thai UNI (4)					
	5L850ASE / 5L850UNI	850/480		Universal	UNI (2)					
	5L850PH	850/480		Nema	Nema (4)					
	5L800TH	800/480		Universal	Thai UNI (4)					
	5L1200ASE / 5L1200UNI	1200/600	IEC C14 (Cable Provided)	Universal	UNI (4)					
	5L1200PH	1200/600	Fixed Cord	Nema	Nema (8)					
	5L1000TH	1000/600		Universal	Thai UNI (6)					
5E	PART NUMBER	VA/WATTS	INPUT	OUTPUT	OUTLET QUANTITY	EXTENDED BATTERY	FORM	COMMS	STANDARD WARRANTY	ADDITIONAL FEATURES
	5E500i	500/300	C14	C13	4	No	Tower	No	3 years (2 years battery)	<ul style="list-style-type: none"> Automatic Voltage Regulation (AVR) Communication feature option for 500VA & 650VA models Wide model range from 500VA to 2000VA EUC software inclusive which differentiates it from OEM brands Dataline protection for the USB models
	5E650i	650/360								
	5E650iUSB	650/360								
	5E850iUSB	850/480								
	5E1100iUSB	1100/660			6			USB		
	5E1500iUSB	1500/900								
	5E2000iUSB	2000/1200								



SPECIFICATION UPS EATON

SOHO, Retail Networking & Telephony applications

ELLIPSE ECO	PART NUMBER	VA/WATTS	INPUT	OUTPUT	OUTLET QUANTITY	EXTENDED BATTERY	FORM	COMMS	STANDARD WARRANTY	ADDITIONAL FEATURES
	EL650USBIEC	650/400	C14	C13	3	No	*Rack/ Tower	USB	3 years (2 years battery)	<ul style="list-style-type: none"> • Energy Saving Eco-control function • Has advance surge protection which complies with IEC 616431 • Convenient form factor (Rack/Tower) • EUC software inclusive
	EL800USBIEC	800/500		C13 Surge only	1					
	EL1200USBIEC	1200/750		C13	4					
	EL1600USBIEC	1600/1000		C13 Surge only	4					
ELLIPSE PRO	PART NUMBER	VA/WATTS	INPUT	OUTPUT	OUTLET QUANTITY	EXTENDED BATTERY	FORM	COMMS	STANDARD WARRANTY	ADDITIONAL FEATURES
	ELP650IEC	650/400	C14	C13	3	No	*Rack/ Tower	USB	3 years (2 years battery)	<ul style="list-style-type: none"> • Convenient form factor (Rack/Tower), optional rack kit • Has advance surge protection which complies with IEC 616431 • Energy Saving Eco function • LCD Display
	ELP850IEC	850/510		C13 Surge only	1					
	ELP1200IEC	1200/750		C13	4					
	ELP1600IEC	1600/1000		C13 Surge only	4					



SPECIFICATION UPS EATON

Enterprise Servers, Storage, Network systems

5P	PART NUMBER	VA/WATTS	INPUT	OUTPUT	OUTLET QUANTITY	EXTENDED BATTERY	FORM	COMMS	STANDARD WARRANTY	ADDITIONAL FEATURES
	5P650i	650/420	C14	C13	4	No	Tower	USB / RS232 / Network Card Slot	3 years (2 years battery)	<ul style="list-style-type: none"> High End interactive LCD display Load segment for extended battery backup for critical equipments 1U form factor for space saving ABMTechnology which prolongs battery life by up to 50% Network card option for IP enabled UPS for rackmount version
	5P850i	850/600			6					
	5P1150i	1150/770			8					
	5P1550i	1550/1100			4					
	5P650iR	650/420			4		Rack-mount			
	5P850iR	850/600			6					
	5P1150iR	1150/770			4					
	5P1550iR	1550/1100			6					
5PX	PART NUMBER	VA/WATTS	INPUT	OUTPUT	OUTLET QUANTITY	EXTENDED BATTERY	FORM	COMMS	STANDARD WARRANTY	ADDITIONAL FEATURES
	5PX1500iRT	1500/1350	C14	C13	8	Yes (< 4 EBM)	Rack/ Tower (Inclusive of rack kit & Tower pedestal)	USB / RS232 / Network Card Slot	3 years (2 years battery)	<ul style="list-style-type: none"> High End interactive LCD display 0.9 PF for more real power usage Load segment for extended battery backup for critical equipments Convenient form factor (Rack/Tower) Scalable battery capability (1-4 EBM) Automatic battery detection Capacity management with kWh measurement ABMTechnology which prolongs battery life by up to 50% Network card option for IP enabled UPS
	5PX2200iRT	2200/1980	C20	C13	8					
	5PX3000iRT2U	3000/2700		C19	1					


SPECIFICATION UPS EATON

Critical Enterprise Equipment, Mission Critical systems

9SX	PART NUMBER	VA/WATTS	INPUT	OUTPUT	OUTLET QUANTITY	EXTENDED BATTERY	FORM	COMMS	STANDARD WARRANTY	ADDITIONAL FEATURES		
  <small>9SX15KPM/ 20KPM</small>	9SX700I	700/630	C14	C13	6	No	Tower	USB / RS232 / Network Card Slot	3 years (2 years battery)	<ul style="list-style-type: none"> LCD panel 0.9 PF for more real power usage Load segment for extended battery backup for critical equipments Scalable battery capability (1-4 EBM) ABM Technology which prolongs battery life by up to 50% Network card option for IP enabled UPS 		
	9SX1000I	1000/900										
	9SX1500I	1500/1350										
	9SX2000I	2000/1800										
	9SX3000I	3000/2700	C20	C13 C19	8 1	Yes (< 4 EBM)			Rack		2 years (2 years battery)	<i>Additional Features for 9SX15/20KPM only:</i> <ul style="list-style-type: none"> Touchscreen color LCD with gravity sensor External Maintenance Bypass option Parallel function capacity for power redundancy or increased UPS capacity Built-in super charger
	9SX5000I	5000/4500	HW	HW	-							
	9SX6000I	6000/5400										
	9SX1000IR	1000/900	C14	C13	6							
	9SX1500IR	1500/1350										
	9SX2000IR	2000/1800										
	9SX3000IR	3000/2700	C20	C13 C19	8 1	Yes (< 6 EBM)	Rack/Tower	2 years (2 years battery)				
	9SX15KPM	15000/15000	HW	HW	-							
	9SX20KPM	20000/20000										


SPECIFICATION UPS EATON

Critical Enterprise Equipment, Mission Critical systems

9PX	PART NUMBER	VA/WATTS	INPUT	OUTPUT	OUTLET QUANTITY	EXTENDED BATTERY	FORM	COMMS	STANDARD WARRANTY	ADDITIONAL FEATURES
	9PX1000iRT2U	1000 / 1000	C14	C13	8	Yes (< 4 EBM)	Rack/Tower	USB / RS232 / Network Card Slot	3 years (2 years battery)	<ul style="list-style-type: none"> • High End interactive LCD display • 0.9 PF for more real power usage • Load segment for extended battery backup for critical equipments (5kVA and 6kVA) • Convenient form factor (Rack/Tower) • Scalable battery capability (1-12 EBM) • Automatic battery detection • Capacity management with kWh measurement • ABM Technology which prolongs battery life by up to 50% • Super charger for long backup time requirement • Parallel function capacity for power redundancy or increased UPS capacity • Network card option for IP enabled UPS • External Maintenance Bypass option
	9PX1500iRT2U	1500 / 1500								
	9PX2200iRT2U	2200 / 2200								
	9PX3000iRT2U	3000 / 3000								
	9PX5KiRT	5000/4500	HW	HW	-		Rack/Tower (Inclusive of rack kit & Tower pedestal)	2 years (2 years battery)		
	9PX6KiRT	6000/5400		C19	2					
	9PX8KiRT	8000/7200		C13	8					
	9PX11KiRT	11000/10000	HW	-	Yes (< 12 EBM)					

SPECIFICATION UPS EATON

Critical Enterprise Equipment, Mission Critical systems

9E	PART NUMBER	VAWATTS	INPUT	OUTPUT	OUTLET QUANTITY	EXTENDED BATTERY	FORM	COMMS	STANDARD WARRANTY	ADDITIONAL FEATURES
	9E1000I	1000/800	IEC C14	C13	4	No	Tower	USB / RS232 / Network Card Slot	3 years (2 years battery)	<ul style="list-style-type: none"> • Interactive LCD display • 0.8 PF for more real power usage • Maintenance bypass as standard (for 6kVA and above) • Combo input (3:1 & 1:1) for 10 / 15 / 20kVA models • Scalable battery capability (1 - 4 EBM) • XL models available for long backup time requirements with third party batteries • Network card option for IP enabled UPS
	9E2000I	2000/1600		C13	6					
	9E3000I	3000/2400	IEC C20	C13	6					
	9E3000IXL	3000/2400		C19	1					
	9E6Ki	6000/4800	HW	HW	-	Yes (< 4 EBM)			2 years (2 years battery)	
	9E10Ki	10000/8000								
	9E10KiXL	10000/8000								
	9E15Ki	15000/12000								
	9E20Ki	20000/16000								
	9E20KiXL	20000/16000								
						1 year (1 year battery)				

SPECIFICATION UPS EATON

Eaton 91PS

(single/three phase in & single phase out)

POWER RATING

8-30 kW

Eaton 93PS

(three phase in & three phase out)

POWER RATING

8-40 kW



EATON 91PS / 93PS



Frame (maximum power)	10kW	
Phases in/out	Eaton 91PS	1:1 / 3:1
	Eaton 93PS	3:3
Power range	8 – 10 kW	
Runtime (internal batteries)	8 - 15 min	
Number of power modules	Monolithic	

Frame (maximum power)	Eaton 91PS	15kW
	Eaton 93PS	20kW
Phases in/out	Eaton 91PS	3:1
	Eaton 93PS	3:3
Power range	Eaton 91PS	8 - 15kW
	Eaton 93PS	8-20kW
Runtime (internal batteries)	5 – 37 min	
Number of power modules	1	

Frame (maximum power)	Eaton 91PS	30kW
	Eaton 93PS	40kW
Phases in/out	Eaton 91PS	3:1
	Eaton 93PS	3:3
Power range	Eaton 91PS	8-30kW
	Eaton 93PS	8-40kW
Runtime (internal batteries)	5 – 85 min	
Number of power modules	1-2	

Technical specifications



General		
UPS output power rating	Eaton 91PS	8-30 kW
	Eaton 93PS	8-40 kW
Efficiency in double conversion mode		96 %
Efficiency in Energy Saver System (ESS) mode		99 %
Paralleling capability		up to 4 units
Audible noise	10 kW frame	< 54 dBA in double conversion
	15-40 kW frame	< 60 dBA in double conversion
Altitude (max)		1000 m without derating (max 2000m)
Input		
Input wiring	Eaton 91PS (1:1)	1 phase + N + PE
	Eaton 91PS (3:1) & 93PS (3:3)	3 phases + N + PE
Nominal voltage rating	Eaton 91PS (1:1)	220 V ; 230 V ; 240 V 50/60 Hz
	Eaton 91PS (3:1) & 93PS (3:3)	220/380 V; 230/400 V; 240/415 V 50/60 Hz
Input frequency range		40 to 72 Hz
Input power factor		0.99
Input iTHD	8-10 kW	< 5 %
	15-40 kW	< 4 %
Soft start capability		Yes
Internal backfeed protection		Yes
Output		
Output wiring	Eaton 91PS (1:1 & 3:1)	1 phase + N + PE
	Eaton 93PS (3:3)	3 phases + N + PE
Nominal voltage rating	Eaton 91PS (1:1 & 3:1)	220 V ; 230 V ; 240 V 50/60 Hz
	Eaton 93PS (3:3)	220/380 V; 230/400 V; 240/415 V
Load power factor range		0.8 lagging – 0.8 leading

Technical specifications



Battery		
Battery type	VRLA	
Charging mode	Advanced Battery Management (ABM) or Float	
Temperature compensated charging	Option	
Battery quantity	Internal	32 blocks, 192 cells per battery string
	External	28-40 blocks per string
Charge current limit	10 kW frame	Configurable, maximum 12.5 A
	15/20 kW frame 30/40 kW frame	Configurable, maximum 18/25 A Configurable, maximum 36/50 A
Battery start capability	Yes	
Alternative backup power sources	Li-Ion batteries	
	Supercapacitors	
	Wet cell batteries	
	NiCd batteries	

Options and accessories	
Long life batteries	
External battery cabinets and supercapacitor cabinets	
External maintenance bypass switches	
Battery breaker enclosures for rack batteries	

Connectivity	
Native relay inputs/outputs	5 relay inputs and dedicated EPO 1 relay output More relay contacts available as option
Software	Eaton Intelligent Power Manager Eaton Intelligent Power Protector
Gigabit Network card (NETWORK-M2)	Web/SNMP Third party certified cybersecurity Up to 3 optional sensors (EMPDT1H1C2): Temperature, humidity and two status inputs
Industrial Gateway card (INDGW-M2)	Web/SNMP/Modbus RTU and TCP Third party certified cybersecurity Up to 3 optional sensors (EMPDT1H1C2): Temperature, humidity and two status inputs
Power Xpert UPS Minislot card (PXGMSUPS)	Web/SNMP/Modbus RTU and TCP/BACnet IP Optional Sensor (EMP001): Temperature, humidity and two status inputs
Industrial Relay-MS card (INDRELAY-MS)	5 relay outputs / 1 relay input

Compliance with standards	
Safety	IEC 62040-1; CB certified
EMC	IEC 62040-2
Performance	IEC 62040-3
RoHS	EU directive 2011/65/EU
WEEE	EU directive 2012/19/EU

EATON 93E XL UPS

10 – 40 kVA



Application

- Data Center
- Manufacturing
- Commercial Building
- Telecom
- Healthcare



82%
more energy



65%
savings on installation



32%
less footprint



32%
savings on real state

Technical specifications



Power	
Ratings	10kVA/9kW 15kVA/13.5kW 20kVA/18kW 30kVA/27kW 40kVA/36kW
Topology	Double-conversion online UPS
Operating frequency	50/60 Hz (40 to 72 Hz)
Input power factor	>0.99 typical
Input current distortion	≤5% THD
Electrical input	
Nominal input voltage	400/230V, 4 wire (380/415V selectable)
Input voltage range	-15%, +20% from nominal (400V) at 100% load without depleting battery
Electrical output	
Nominal output voltage	400/230, 4 wire (380/415V selectable)
Output voltage regulation	±1% Static; <5% dynamic at 100% resistive load change, <20 ms response time
Battery	
Battery	432V (216 Cells * 6 strings(max), Default with internal batteries)
Charging method	ABM Cyclic Charging
General	
Efficiency	>98% High-efficiency mode >94% Double-conversion mode
Overload	150% for 1 minute, 125% for 10 minutes, >150% for 150ms
UPS bypass	Automatic on overload or UPS failure
Parallel technology	Hot Sync® Technology
Dimensions W x D x H (mm)	600 x 800 x 1876
Cabinet rating	IP20 with standard washable dust filters
Weights with 6 strings internal battery	10kVA 770kg 15kVA 770kg 20kVA 770kg 30kVA 780kg 40kVA 790kg

Communications	
Display	Graphical LCD with blue backlight
LEDs	(4) LEDs for notice and alarm
Audible alarms	Yes
Communication ports	(1) RS-232, (1) USB, (1) EPO
Communication slots	(2) Mini-slot communication bays
Environmental	
Operating temperature	0°C to +40°C Batteries recommended max. +25°C
Storage temperature	-25°C to +55°C without batteries +15°C to +25°C with batteries
Relative humidity	5-95%, non-condensing
Audible noise	10kVA≤55 dB(A) at 1m typical 15kVA≤55 dB(A) at 1m typical 20kVA≤55 dB(A) at 1m typical 30kVA≤62 dB(A) at 1m typical 40kVA≤62 dB(A) at 1m typical
Altitude	<1000m at +40°C
Certifications	
EMI standards	EN55022/EN55024
EMC compliance	IEC 62040-2
Quality	ISO 9001: 2000 and ISO 14001:1996
Communication accessories	
Network-MS	Web/SNMP Card
Modbus-MS	Web/SNMP and Modbus Card
Relay-MS	Relay (Dry Contact) Card -DB9 Connection
Industrial Relay	Relay (Dry Contact) Card -Terminal Connection
116750224-001	Environmental Monitor Probe (EMP) kit (need to plug into Web/SNMP Card or Web/SNMP and Modbus Card to work)

Due to continuous product improvements, specifications are subject to change without notice.

Scalable Runtime

Power Rating	Model No.	Backup Time (min)
10kVA	93EXL-10-2S-40M-E	40
	93EXL-10-3S-60M-E	60
	93EXL-10-4S-90M-E	90
15kVA	93EXL-15-3S-40M-E	40
	93EXL-15-4S-55M-E	55
	93EXL-15-5S-72M-E	72
	93EXL-15-6S-92M-E	92
20KVA	93EXL-20-3S-27M-E	27
	93EXL-20-4S-40M-E	40
	93EXL-20-5S-50M-E	50
	93EXL-20-6S-60M-E	60
30KVA	93EXL-30-3S-15M-E	15
	93EXL-30-4S-24M-E	24
	93EXL-30-5S-30M-E	30
	93EXL-30-6S-40M-E	40
40KVA	93EXL-40-4S-15M-E	15
	93EXL-40-5S-22M-E	22
	93EXL-40-6S-27M-E	27

*Notes: Approximate backup time (min) based on the condition with 80% load at 0.9PF

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EATON 93PR UPS

15 – 80 kW



Capacity	Rated capacity/active power (kVA/kW)	15/15	20/20	30/30	40/40	60/60	80/80
Input	Rated input voltage (Vac)	380/400/415					
	Input voltage range (Vac)	201-478					
	Rated input frequency (Hz)	50/60					
	Input frequency range (Hz)	40-72					
	Bypass voltage range (Vac)	+/- 15% by default, +/- 20% optional					
	Input power factor	> 0.99					
	Input current THDi (@ rated linear load)	< 3%					
Output	Rated output voltage (M)	380/400/415					
	Rated output frequency (Hz)	50/60					
	Power factor	1					
	Output voltage regulation (steady state)	± 1%					
	Output voltage tolerance regulation (dynamic)	± 5% (0-100% load variation)					
	Output voltage THDv (@ full linear load)	< 2%					
	Inverter overload capacity	10 minutes, @125%					
Productivity	Double-conversion mode	> 96%					
	ESS mode	99%					
Parallel	Parallel unit	Up to 4					
Battery configuration	Battery quantity	32-44 blocks					
	Charging method	BMS, ABM, or constant float charge					
	Connection	Support common battery (1+1)					
Dimensions	W*D*H (mm)	330*657*528				330*690*986	
	Weight	Net weight (Kg)	40	40	44.5	45	96.5
Communication	Communication interface	2 mini-slots, 3 building alarms inputs, and 1 RS232&1 USB					
	Communication accessories	Gigabit network card; Industrial gateway card; EMP temperature and humidity sensor; AS/400 relay/RS-232 interface card					

EATON 93PR UPS

25 – 200 kW



Technical specifications

General

UPS output power rating (1.0 p.f.)	25, 50, 75, 100, 125, 150, 175, 200kW
Efficiency in double conversion mode	> 96%
Efficiency in Energy Saver System (ESS)	> 99%
Static bypass rating	200kW
External paralleling	up to 4 units with HotSync technology
UPS topology	Double conversion
UPS degree of protection	IP20
Acoustic noise at 1 m, in 25 °C ambient temperature	< 70 dBA in double conversion, < 55 dBA in ESS
Altitude (max)	1000m above sea level at 40 °C. Maximum 2000m with 1% derating per each add. 100 m

Input

Rated input voltage	220/380 V, 230/400 V, 240/415 V 50/60 Hz							
Voltage tolerance - Rectifier input	187 to 276 V							
Voltage tolerance - Bypass input	rated voltage -15% / +10%							
Rated input frequency	50 or 60 Hz, user configurable							
Frequency tolerance	40 to 72 Hz							
Input wiring	3 phase + neutral							
Input power factor at 100% load	> 0.99							
Input ITHD	< 3%							
Rated input r.m.s current	25kW	50kW	75kW	100kW	125kW	150kW	175kW	200kW
380V	40 A	80 A	120 A	159 A	199 A	239 A	278 A	318 A
400V	38 A	76 A	114 A	151 A	189 A	227 A	264 A	302 A
415V	37 A	73 A	110 A	146 A	182 A	219 A	255 A	291 A
Soft start capability	Yes							
Internal backfeed protection	Yes							

Output

Output wiring	3 phase + neutral							
Rated output voltage rating	220/380 V, 230/400 V, 240/415 V, configurable							
Total voltage harmonic distortion	< 1% (100% linear load); < 3% (100% non-linear load)							
Output power factor	1.0							
Permitted load power factor	0.8 lagging to 0.8 leading							
Overload on inverter	10 min 102-110%, 60 sec 111-125%, 10 sec 126-150%, 300 ms > 150%							
Overload on bypass	Continuous < 125%, 20 ms 1000%							

Battery

Battery type	12V, VRLA							
Charging method	ABM technology or Float							
Temperature compensation	Optional							
Battery nominal voltage (VRLA)	480 V							
Battery quantity	36 to 44 blocks. Default is 40 blocks							
Charge current limit	Default 5A, configurable maximum 25A per UPM							
Battery start capability	Yes							

Communications

Minislot	3 communication bays							
Network/SNMP interface	Yes, optional							
Serial ports	Built-in host and device USB							
Standard connectivity ports	Mini-slot ports for optional cards, Device USB and Host USB, RS-232 service port, relay output, 5 building alarm inputs and a dedicated EPO							

EATON 93PR UPS

300 – 1200 kW



Catalogue	93PR-300	93PR-600	93PR-1200
Model	300kVA/ kW	600kVA/ kW	1200kVA/ kW
Power offering (kW)	300kW in 60kW increments	600kW in 60kW increments	1200kW in 60kW increments
Frame Options			
Frame offering	Standard input, output, MBS, Bypass input switch UPS can be configured in different output ratings depending on site ambient temperature • 300kVA/ 300kW at 40°C continuous	Standard input, output, MBS, Bypass input switch UPS can be configured in different output ratings depending on site ambient temperature • 600kVA/ 600kW at 40°C continuous	UPS can be configured in different output ratings depending on site ambient temperature • 1200kVA/ 1200kW at 40°C continuous
General Characteristics			
Efficiency in Energy Saver System (ESS)	Up to 99%		
Efficiency in double-conversion mode	Up to 97%*		
Parallel capability	4 x parallel, extendable to 8x with customisation	4 x parallel, extendable to 8x with customisation	4 x parallel, maximum 4.8MW
Cold start	Supported		
Softstart	Rectifier ramp up, compatible with generator, ramp up rate configurable		
Input Characteristics			
Voltage	380/400/415V		
Voltage range:	301~478V L-L 175~276V L-N		
Frequency range	50/60 Hz		
Power factor	>0.99		
Input current distortion	< 3% @ 100% load capacity		
Battery			
Battery Type	Lithium, VRLA, Ni-Cad		
Battery Voltage	360~700 Vdc		
Battery Connection options	Support 1+1 common battery		
Output			
Voltage	380/400/415V 4 W-ire		
Frequency range	50/60 Hz		
Regulation	±1% steady state		
Voltage THD	< 1% linear load < 3% non-linear load		
Optional accessories	<ul style="list-style-type: none"> • Communication: Dry contacts, ModBus RTU/TCP/IP, SNMP cards • External Sync Control Box • Top exhaust kits 		

EATON 9395P UPS

250 – 1200 kW



Technical specifications

UPS output power rating	
kVA	250 275 300 400 500 550 600 750 825 900 1100 1200*
kW	250 275 300 400 500 550 600 750 825 900 1100 1200
General	
Efficiency in double conversion mode	up to 96.3%
VMMS (double conversion)	Significantly increased efficiency at low loads
Efficiency in Energy Saver System (ESS)	Up to 99.3%
Distributed parallelling with Hot Sync technology	Up to 8
Internal N+1 redundancy capable	In 600 kVA: 300 kVA In 900 kVA: 600 kVA In 1200 kVA: 900 kVA
Field upgradable	Yes
Inverter/rectifier topology	Transformer-free IGBT with PWM
Audible noise -Typical	< 75 dB
Continuous Maximum Operating Temperature	40°C
Altitude (max)	1000 m without derating (max 2000 m)
Input	
Input wiring	3 ph + N + PE
Nominal voltage rating (configurable)	220/380, 230/400, 240/415 V 50/60 Hz
Input voltage range**	-15% - +15%
Input frequency range	45-65 Hz
Input power factor	0.99
Input ITHD	<3% on nominal load in double conversion mode
Soft start capability	Yes
Output	
Output wiring	3 ph + N + PE
Nominal voltage rating (configurable)	220/380, 230/400, 240/415 V 50/60 Hz
Output UTHD	<2% (100% linear load)
Output power factor	1.0
Permitted load power factor	0.7 lagging - 0.9 leading
Overload on inverter**	10 min 100-110%; 30 sec 110-125%; 10 sec 125-150%; 300 ms >150%
Overload when bypass available	Continuous <115%, 20 ms 100% Note! Bypass fuses may limit the overload capability

Battery		
Type	VRLA, AGM, Gel, Wet Cell	
Charging method	Current limited constant voltage charging, or Eaton Advanced Battery Management (ABM)	
Temperature compensation	Optional	
Battery nominal voltage (lead-acid)	480 V (40 x 12 V, 240 cells)	
Charging current / Model Max* A	120A per UPM	
*Limited by maximum UPS input current rating		
Dimensions and weights		
300 kVA	1350 x 880 x 1880 mm (wxdxh)	830 kg
600 kVA	1890 x 880 x 1880 mm	1440 kg
900 kVA	3590 x 880 x 1880 mm	2680 kg
1200 kVA	4350 x 880 x 1880 mm	3120 kg
Accessories		
UPM Service Disconnect	Optional	
Internal Backfeed	Optional	
7"/10" Touch Screen	Optional	
X-Slot connectivity (Web/SNMP, ModBus/Jbus, Relay, Hot Sync, ViewUPS-X remote display), integrated manual bypass for 300 kVA model		
Communications		
X-Slot	4 communication bays	
Relay inputs/outputs	5/1 programmable	
Compliance with standards		
Safety (CB certified)	IEC 62040-1	
EMC	IEC 62040-2	
Performance	IEC 62040-3	