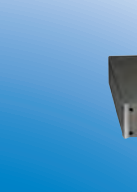



Pulsar Series Quick Guide Choose the right UPS

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DIN Version

Topology	Passive standby (Off- Line)			Line Interactive		Double conversion (On- Line)								
														
	Eaton Protection Station	Eaton Ellipse ASR	Eaton Ellipse MAX	Eaton Evolution	Eaton Evolution S	Eaton EX		Eaton MX	Eaton EX RT					
	PC Mac, AV equipment	PC Mac, peripherals	PC, workstation, peripherals	Servers, storage systems, network devices		Servers, storage systems, network equipment, telecoms, industrial processes			Departmental networks	Servers enclosures and industrial environment				
Rating	USB					USBS			1:1 ⁵ 3:1 ⁵					
500 VA	66 943													
650 VA	61 062													
800 VA	61 082													
Tower	Rating	USBS		USBS		USB+Serial		USB+Serial		HotswapDIN Hotswap HW	USB+Serial	Serial	Serial	
450 VA		66 941												
600 VA		66 766	66 770	68 542	68 546									
650/700 VA						650 VA 68 450				700 VA 68 180				
750/850 VA		750 VA 66 774	850 VA 68 550			850 VA 68 452								
1000/1100/1150/1250 VA		1000 VA 66 778	1100 VA 68 554			1150 VA 68 454	1250 VA 68 456			1000 VA 68 181				
1500/1550/1750 VA		1500 VA 66 782	1500 VA 68 558			1550 VA 68 457	1750 VA 68 459			1500 VA 68 183				
2000/2200 VA						2000 VA 68 460				2200 VA 68 400	68 407	68 410		
3000 VA										3000 VA 68 402	68 413	68 416		
4000 VA														
5000 VA											4 kVA 68 501		1:1 ⁵ 3:1 ⁵	
7000 VA											5 kVA 68 504	5 kVA 68 054		
11000 VA												7 kVA 68 070	68 074	
												11 kVA 68 110	68 114	
Rack	Rating	Rack kit 68 561				HotswapDIN Hotswap HW Netpack ⁴		Netpack ⁴		Netpack ⁴		Network Pack ⁴		
450/600/650 VA						650 VA 68 451								
750/850 VA						850 VA 68 453				2U 3U 3U 2U				
1000/1100/1150/1250 VA						1150 VA 68 455	1250 VA 68 456			1000 VA 68 182				
1500/1550/1750 VA						1550 VA 68 458	1750 VA 68 459			1500 VA 68 184				
2000/2200/2500 VA						2000 VA 68 460	2500 VA 68 463⁴			2200 VA 68 401	68 407	68 410	68 411	
3000 VA							68 465⁴			68 403	68 413	68 416	68 417	
4000 VA														
5000 VA											4 kVA 3U 68 502		1:1 ⁵ 3:1 ⁵	
7000 VA											5 kVA 3U 68 505	5 kVA 6U 68 056		
11000/15000VA												7 kVA 6U 68 072	68 076	
20000 VA												15 kVA 16U 68 513	11 kVA 6U 68 112	68 116
												20 kVA 16U 68 514		
Accessories														
PDU						8 DIN outlets 1U 68 436 - 12 IEC 10 A outlets 68 438					(8 IEC outlet 10A + 4IEC outlet 16A) 2U 66 857			
Hotswap MBP						4 DIN outlets 1,5U 68 431¹		6 IEC outlet 68 432²		HW (Install) 68 433³		Cable kit DIN 10A for Hotswap MBP 68 439		
Kit Eaton MX Modular Easy												68 520 (paralleling kit)		
Communication														
Network Management Card (SNMP / web)					Minislot (include EvolutionS, Eaton EX, Eaton MX, Eaton MX Frame Netpack) 66 102									



Powering Business Worldwide

Hotswap MBP (maintenance By-Pass manual) : **1 DIN version** DIN output connector, **2 IEC version** IEC output connector **3 HW version (install)** output connector terminal blocks. **4 Netpack version and Network Pack** : include installation rail kit 19 and NMC communication card (SNMP/web)

5 1:1 Single phase input / single phase output **3:1** Three phase input / single phase output

Pulsar Series UPS Details DIN version

	Part Number	Standard Guarantee	Warranty+ Part number ¹	Power rating Backup times	Communication ²	Protection Tel/ADSL	Outlet	warranty for connected equipment	Product dimensions & weight (hwxwd mm/kg)
Eaton Protection Box									
Protection Box 1	66 708	2 years	/	Surge protection	/	/	1	12 000€	70 x 105 x 67 / 0.16
Protection Box 1 Tel@	66 709	2 years	/	Surge protection	/	Tel	1	12 000€	70 x 105 x 67 / 0.21
Protection Box 5	66 712	2 years	/	Surge protection	/	/	5	25 000€	65 x 255 x 120 / 0.61
Protection Box 5 Tel@	66 713	2 years	/	Surge protection	/	Tel/ADSL	5	25 000€	65 x 260 x 120 / 0.77
Protection Box 5 Tel@+TV	66 936	2 years	/	Surge protection	/	Tel/ADSL/TV	5	25 000€	65 x 260 x 120 / 0.84
Protection Box 8 Tel@+TV	66 937	2 years	/	Surge protection	/	Tel/ADSL/TV	8	50 000€	65 x 315 x 150 / 0.85
Eaton Protection Box PowerLine									
Protection Box 5 PowerLine 85	68 594	2 years	/	Surge protection	/	Tel/ADSL	5	25 000€	65 x 260 x 120 / 0.77
Protection Box 8 PowerLine 85	68 590	2 years	/	Surge protection	/	Tel/ADSL/TV	8	50 000€	65 x 315 x 150 / 0.85
Protection Box 8 PowerLine 200	68 592	2 years	/	Surge protection	/	Tel/ADSL/TV	8	50 000€	65 x 315 x 150 / 0.85
Eaton Protection Station									
Protection Station 500	66 943	2 years	66 811	500VA / 250W 20 min	/	Tel/ADSL	6 (3+3)	Unlimited	155 x 304 x 137 / 2.9
Protection Station 650 USB	61 062	2 years	66 811	650VA / 400W 30 min	USB	Tel/ADSL	8 (4+4)	Unlimited	185 x 327 x 149 / 3.8
Protection Station 800 USB	61 082	2 years	66 812	800VA / 500W 30 min	USB	Tel/ADSL	8 (4+4)	Unlimited	185 x 327 x 149 / 4
Eaton Ellipse ASR									
Ellipse ASR 450	66 941	2 years	66 811	450VA / 250W 11 min	/	/	DIN 4 (3+1)	Unlimited	245 x 81 x 242 / 3
Ellipse ASR 600	66 766	2 years	66 811	600VA / 360W 15 min	/	/	DIN 4 (3+1)	Unlimited	265 x 82 x 270 / 4.2
Ellipse ASR 600 USBS	66 770	2 years	66 811	600VA / 360W 15 min	USB/Serial	Tel/Fax	DIN 4 (3+1)	Unlimited	265 x 82 x 270 / 4.4
Ellipse ASR 750 USBS	66 774	2 years	66 812	750VA / 450W 13 min	USB/Serial	Tel/Fax	DIN 4 (3+1)	Unlimited	265 x 82 x 270 / 4.4
Ellipse ASR 1000 USBS	66 778	2 years	66 812	1000VA / 600W 18 min	USB/Serial	Tel/Fax	DIN 8 (4+4)	Unlimited	312 x 80 x 305 / 8.1
Ellipse ASR 1500 USBS	66 782	2 years	66 812	1500VA / 900W 16 min	USB/Serial	Tel/Fax	DIN 8 (4+4)	Unlimited	390 x 80 x 317 / 11
Ellipse ASR Kit rack 2U	66 561	2 years	/	-	/	/	/	/	/
Eaton Ellipse MAX									
Ellipse MAX 600	68 542	2 years	66 812	600VA / 360W 12 min	/	/	DIN 4 (3+1)	Unlimited	301 x 82 x 314 / 5.75
Ellipse MAX 600 USBS	68 546	2 years	66 813	600VA / 360W 12 min	USB/Serial	Tel/Fax	DIN 4 (3+1)	Unlimited	301 x 82 x 314 / 5.75
Ellipse MAX 850 USBS	68 550	2 years	66 813	850VA / 550W 18 min	USB/Serial	Tel/Fax	DIN 8 (4+4)	Unlimited	410 x 82 x 314 / 10.2
Ellipse MAX 1100 USBS	68 554	2 years	66 813	1100VA / 660W 15 min	USB/Serial	Tel/Fax	DIN 8 (4+4)	Unlimited	410 x 82 x 314 / 10.2
Ellipse MAX 1500 USBS	68 558	2 years	66 813	1500VA / 900W 12 min	USB/Serial	Tel/Fax	DIN 8 (4+4)	Unlimited	410 x 82 x 314 / 10.2
Ellipse MAX Kit rack 2U	68 561	2 years	/	-	/	/	/	/	/
Eaton Evolution (Tower)									
Evolution 650	68 450	2 years	66 812	650VA / 420W 20 min	USB/Serial ⁵	/	/	/	418 x 147 x 234 / 8.4
Evolution 850	68 452	2 years	66 812	850VA / 600W 20 min	USB/Serial ⁵	/	4 IEC / 2 Powershare ⁴	/	418 x 147 x 234 / 10.8
Evolution 1150	68 454	2 years	66 813	1150VA / 770W 30 min	USB/Serial ⁵	/	/	/	418 x 147 x 234 / 12.5
Evolution 1550	68 457	2 years	66 813	1550VA / 1100W 25 min	USB/Serial ⁵	/	/	/	492 x 147 x 234 / 16.53
Evolution 2000 RT 2U	68 460	2 years	66 818	2000VA / 1600W 22 min	USB/Serial ⁵	/	8 IEC / 4 Powershare ⁴	/	440 x 86.2 x 509 / 25.7
Eaton Evolution (Rack)									
Evolution 650 1U	68 451	2 years	66 812	650VA / 420W 20 min	USB/Serial ⁵	/	/	/	438 x 43.2 x 366 / 10.1
Evolution 850 1U	68 453	2 years	66 812	850VA / 600W 20 min	USB/Serial ⁵	/	4 IEC / 2 Powershare ⁴	/	438 x 43.2 x 512 / 16.1
Evolution 1150 1U	68 455	2 years	66 813	1150VA / 770W 30 min	USB/Serial ⁵	/	/	/	438 x 43.2 x 512 / 16.6
Evolution 1550 1U	68 458	2 years	66 813	1550VA / 1100W 25 min	USB/Serial ⁵	/	/	/	438 x 43.2 x 556 / 20
Evolution 2000 RT 2U	68 460	2 years	66 818	2000VA / 1600W 22 min	USB/Serial ⁵	/	8 IEC / 4 Powershare ⁴	/	440 x 86.2 x 509 / 25.7
Eaton Evolution S (convertible rack/tower)									
Evolution S 1250 RT 2U	68 456	2 years	66 813	1250VA / 1150W 17 min	USB/Serial ⁵	/	/	/	440 x 86.2 x 509 / 24.3
Evolution S 1750 RT 2U	68 459	2 years	66 818	1750VA / 1600W 12 min	USB/Serial ⁵	/	/	/	440 x 86.2 x 509 / 26.6
Evolution S 2500 RT 2U NP	68 463	2 years	66 814	2500VA / 2250W 18 min	USB/Serial/SNMP	/	8 IEC / 4 Powershare ⁴	/	440 x 86.2 x 634 / 33.8
Evolution S 3000 RT 3U	68 464	2 years	66 814	3000VA / 2700W 14 min	USB/Serial ⁵	/	/	/	440 x 130.7 x 484 / 10
Evolution S 3000 RT 2U NP	68 465	2 years	66 814	3000VA / 2700W 14 min	USB/Serial/SNMP	/	/	/	440 x 86.2 x 634 / 33.8

¹ Warranty extended to 3 years ² USB & serial cable includes ³ By Pass maintenance ⁴ Powershare : programmable sockets
⁵ SNMP card optionnal

Pulsar Series UPS Details DIN version

	Part Number	Standard Guarantee	Warranty* Part number ¹	Power rating Backup times	Communication ²	Network Management Card	Outlet	Rack kit	Product dimensions & weight (hwxwd mm/kg)
Eaton EX									
<i>Tower format</i>									
Eaton EX 700	68 180	2 years	66 813	700 VA / 630W 15 min	USB/RS/Slot	/		/	242 x158 x 400 / 12.5
Eaton EX 1000	68 181	2 years	66 818	1000 VA / 900W 18 min	USB/RS/Slot	/	6 IEC / 3 Powershare ⁴	/	242 x158 x 400 / 15
Eaton EX 1500	68 183	2 years	66 818	1500VA / 1350W 15 min	USB/RS/Slot	/		/	242 x 158 x 450 / 18
<i>Rack/Tower format</i>									
Eaton EX 1000 RT2U	68 182	2 years	66 818	1000VA / 900W 18 min	USB/RS/Slot	/	6 IEC / 3 Powershare ⁴	yes	86,5 x 438 x 480 / 18
Eaton EX 1500 RT2U	68 184	2 years	66 818	1500VA / 1350W 15 min	USB/RS/Slot	/		yes	86,5 x 438 x 480 / 20.5
Eaton EX 2200	68 400	2 years	66 814	2200 VA / 1980W 17 min	USB/RS/Slot	/	8 IEC / 4 Powershare ⁴	/	440 x131 x 490 / 30
Eaton EX 3000	68 402	2 years	66 815	3000 VA / 2700W 15 min	USB/RS/Slot	/		/	440 x131 x 490 / 30
Eaton EX 2200 RT2U	68 401	2 years	66 814	2200VA / 1980W 17 min	USB/RS/Slot	/		yes	440 x 86 x 640 / 31
Eaton EX 3000 RT2U	68 403	2 years	66 815	3000VA / 2700W 10 min	USB/RS/Slot	/		yes	440 x 86 x 640 / 31
Eaton EX 2200 RT3U Hotswap DIN 5	68 407	2 years	66 814	2200VA / 1980W 17 min	USB/RS/Slot	/		yes	440 x 131 x 490 / 30
Eaton EX 2200 RT3U Hotswap HW 5	68 410	2 years	66 815	2200VA / 1980W 15 min	USB/RS/Slot	/	8 IEC / 4 Powershare ⁴	yes	440 x 131 x 490 / 30
Eaton EX 3000 RT3U Hotswap DIN 5	68 413	2 years	66 814	3000VA / 2700W 10 min	USB/RS/Slot	/		yes	440 x 131 x 490 / 30
Eaton EX 3000 RT3U Hotswap HW 5	68 416	2 years	66 815	3000VA / 2700W 14 min	USB/RS/Slot	/		yes	440 x 131 x 490 / 30
Eaton EX 2200 RT2U Netpack	68 411	2 years	66 814	2200VA / 1980W 15 min	USB/RS/Slot	yes		yes	440 x 86 x 640 / 31
Eaton EX 3000 RT2U Netpack	68 417	2 years	66 815	3000VA / 2700W 15 min	USB/RS/Slot	yes		yes	440 x 86 x 640 / 31
Eaton MX & Eaton MX Frame									
<i>Rack/Tower format</i>									
Eaton MX 4000 RT3U	68 501	1 year	66 816	4000VA / 3600W 10 min	USB/RS/Slot	/		/	444.5 x 130.6 x 735 / 57
Eaton MX 5000 RT3U	68 504	1 year	66 816	5000VA / 4500W 8 min	USB/RS/Slot	/		/	444.5 x 130.6 x 735 / 57
Eaton MX 4000 RT3U Netpack	68 502	1 year	66 816	4000VA / 3600W 10 min	USB/RS/Slot	yes	Terminal Block + 8 IEC	yes	444.5 x 130.6 x 735 / 57
Eaton MX 5000 RT3U Netpack	68 505	1 year	66 816	5000VA / 4500W 8 min	USB/RS/Slot	yes		yes	444.5 x 130.6 x 735 / 57
Eaton MX Modular Easy (paralleling Kit)	68 520	1 year	/	Eaton MX can be paralleled	/	/		/	444.5 x 130.6 x 650 / 10
<i>Rack format</i>									
Eaton MX Frame 15 000	68 513	1 year	/	15 000VA / 13.5kW 8 min	USB/RS/Slot	yes	Terminal Block + 8 IEC	yes	690 x 444.5 x 735 / 250
Eaton MX Frame 20 000	68 514	1 year	/	20 000VA / 18kW 8 min	USB/RS/Slot	yes		yes	
Eaton EX RT									
<i>Single-phase input</i>									
Eaton EX RT 7 (tower)	68 070	1 year	66 817	7000VA / 4900W 13 min	RS/Slot	/	Terminal Block + 8 IEC	/	262 x 444 x 700 / 89
Eaton EX RT 11 (tower)	68 110	1 year	66 817	11000VA / 8000W 10 min	RS/Slot	/		/	262 x 444 x 700 / 95
Eaton EX RT 7 Network pack (rack)	68 072	1 year	66 817	7000VA / 4900W 13 min	RS/Slot	yes	Terminal Block	yes	262 x 444 x 700 / 89
Eaton EX RT 11 Network pack (rack)	68 112	1 year	66 817	11000VA / 8000W 10 min	RS/Slot	yes		yes	262 x 444 x 700 /95
<i>Three-phase input</i>									
Eaton EX RT 5 (tower)	68 054	1 year	66 817	5000VA / 4000W 15 min	RS/Slot	/	Terminal Block + 8 IEC	/	262 x 444 x 700 / 89
Eaton EX RT 7 (tower)	68 074	1 year	66 817	7000VA / 4900W 13 min	RS/Slot	/		/	262 x 444 x 700 / 89
Eaton EX RT 11 (tower)	68 114	1 year	66 817	11000VA / 8000W 10 min	RS/Slot	/		/	262 x 444 x 700 / 95
Eaton EX RT 5 Network pack (rack)	68 056	1 year	66 817	5000VA / 4000W 15 min	RS/Slot	yes	Terminal Block	yes	262 x 444 x 700 / 89
Eaton EX RT 7 Network pack (rack)	68 076	1 year	66 817	7000VA / 4900W 13 min	RS/Slot	yes		yes	262 x 444 x 700 / 89
Eaton EX RT 11 Network pack (rack)	68 116	1 year	66 817	11000VA / 8000W 10 min	RS/Slot	yes		yes	262 x 444 x 700 /95
PDU									
FlexPDU	68 436	2 years	/	/	/	/	8 DIN	/	180 x 448 x 58 / 1.8
Hotswap MBP ³	68 431	2 years	/	/	/	/	4 DIN	/	180 x 448 x 58 / 1.8
Hotswap MBP ³ HW	68 434	2 years	/	/	/	/	Terminal Block	/	180 x 448 x 58 / 1.8
Eaton EX RT PDU	66 857	2 years	/	/	/	/	8 IEC + 4 IEC	/	88 x 483 x 90 2U
Communication cards SNMP									
Network Management Card	66 102	2 years	/	/	/	/	/	/	/

¹ Warranty extended to 3 years ² USB & serial cable includes ³ By Pass maintenance ⁴ Powershare : programmable sockets

Powerware Series Quick Guide Choose the right 3-Phase UPS

www.eaton.com/powerquality

	9155 3phase input / 1phase output	9355 3phase input / 3phase output	BladeUPS 3phase input / 3phase output	9390 3phase input / 3phase output	9395 3phase input / 3phase output
Topology	On-line double conversion	On-line double conversion	On-line double conversion on demand	On-line double conversion	On-line double conversion
Benefits	<ul style="list-style-type: none"> • Very compact and easy to install • Up to 30 minutes back-up time without adding external batteries • 2 to 4 UPSs can be paralleled 	<ul style="list-style-type: none"> • Very compact and easy to install • Up to 30 minutes back-up time without adding external batteries • Up to 4 UPSs can be paralleled 	<ul style="list-style-type: none"> • Up to 60 kVA with bypass, in a standard 42U rack • 97% efficiency to minimise operating costs • Upgradeable to adapt to constant changes in data centres 	<ul style="list-style-type: none"> • Full access from front panel for easy maintenance • Backup time can be extended using external batteries • Up to 4 UPSs can be paralleled 	<ul style="list-style-type: none"> • The most powerful UPS on the market today • Very high efficiency, even at the lowest loads • The best choice for Datacenters and large IT applications
Performance	8 kVA to 30 kVA	8 kVA to 40 kVA	12 kVA to 60 kVA	40 kVA to 160 kVA	225 kVA to 1100 kVA



Eaton ePDUs complement your UPS systems, distributing power anywhere conditioned power must be supplied to multiple pieces of equipment.

Basic ePDU (BA) features rugged construction and flexible mounting options.

Metered ePDU (ME) offers the EasyRead Digital LED Ammeter for easy start-up and provisioning of servers.

Monitored ePDU (MI) offers customers a choice of remotely monitoring the current draw of individual outlets via Ethernet. It also includes the EasyRead Digital LED Ammeter for easy start-up and provisioning of servers.

Managed ePDU (MA) features advanced LED display, remote monitoring and management of individual outlets.

User-definable sequencing of outlets and time delays permit controlled remote boot-up of servers.

Virtual grouping of outlets allows single-click reboot of multicorded servers.

For more informations on Powerware Series Three-Phase products and ePDUs please contact your Eaton local representative.

Contact details



Powering Business Worldwide

Power protection for different needs

Passive standby topology (off-line) is the most frequently-used UPS topology for protecting PCs against power failure, power sag and power surge. In normal mode, the UPS supplies power to the application directly from the mains, filtered but without active conversion. The battery is charged from the mains. In the event of a power cut or fluctuation, the UPS delivers a stable power from the battery. Advantages of this topology are low cost and adequacy for office environments. Passive standby topology is not suitable if the power supply is of low quality (industrial sites) or subject to frequent disruptions.

Line interactive topology is used for protecting enterprise networks and IT applications against power failure, power sag, power surge, undervoltage and overvoltage. In normal mode, the device is controlled by a microprocessor that monitors the quality of the supply and reacts to fluctuations. A voltage compensation circuit is enabled to boost or reduce the supply voltage to compensate for the fluctuations. The main advantage of the topology is that it enables compensation of under and overvoltage without using the batteries.

Double conversion topology (on-line) is a basis for UPSs designed for continuous power protection of critical equipment against all nine power problems: power failure, power sag, power surge, undervoltage, overvoltage, switching transient, line noise, frequency variation and harmonic distortion. It ensures a consistent quality of power supply regardless of disturbances on the incoming mains. The output voltage is entirely regenerated by a sequence of AC to DC conversion followed by DC to AC conversion in order to create power supply without any electrical interference. Double conversion UPSs can be used with any type of equipment as there are no transients when changing over to battery power.



Contact details

For more informations use **Select a UPS** on www.eaton.com/powerquality

Pulsar Series and 3-Phase Powerware Series Choose the right UPS

Power protection for different needs

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For more informations use [Select a UPS on www.eaton.com/powerquality](http://www.eaton.com/powerquality)