

SIZING GUIDE

How to read this sizing guide:

1. Choose which level of power protection you desire (3-, 5-, 9-series UPS).
2. Choose the load you want to protect from the top horizontal line. To determine how much power your computer or equipment consumes, check its label. Electric power is measured in watt (W) or voltampere (VA). In some instances, just the power usage is measured in ampere (A).

- In case you want to secure future expansion capabilities, it is advisable to make an overestimate of 20-30%.
- 3. Follow the column down until you find the figure indicating your desired back-up time (in minutes unless otherwise indicated). The leftmost column shows you the correct UPS solution for the task.

Runtimes are typical values and calculated for typical computer loads.

- If the label states A (Amp), multiply by 230V. The result is the VA power.
- If it states W (Watt), divide by 0.7. The result is the VA power.

We also recommend you to use the Eaton UPS Selector on www.eaton.com/powerquality

Load	250 VA	500 VA	750 VA	1000 VA	1500 VA	2000 VA	2500 VA	3000 VA
Tower models								
Series 3, stand-by								
3105 350 VA	8							
3105 500 VA	8	3						
Series 5, line-interactive								
5110 500 VA	8	3						
5110 700 VA	14	6	3 ¹					
5110 1000 VA	35	15	10					
5115 500 VA	15	5						
5115 750 VA	35	13	6					
5115 1000 VA	38	15	8	5				
5115 1400 VA	55	28	14	8	5 ²			
5125 1000 VA	38	16	10	5				
5125 1500 VA	56	32	22	13	6			
5125 2200 VA	125	60	44	28	15	7		
5125 1000 VA + 1 battery cabinet	190	100	70	50				
5125 1500 VA + 1 battery cabinet	240	140	100	60	35			
5125 2200 VA + 1 battery cabinet	280	160	115	75	50	30		
Series 9, double conversion								
9130 700 VA*	20	8	5 ³					
9130 1000 VA*	30	19	9	6				
9130 1000 VA + 1 battery cabinet*	124	68	43	32				
9130 1000 VA + 2 battery cabinet*	272	111	80	52				
9130 1000 VA + 3 battery cabinet*	368	193	108	82				
9130 1000 VA + 4 battery cabinet*	482	246	158	100				
9130 1500 VA*	-	22	14	9	6			
9130 1500 VA + 1 battery cabinet*	-	85	60	40	25			
9130 1500 VA + 2 battery cabinet*	-	165	112	77	45			
9130 1500 VA + 3 battery cabinet*	-	250	172	117	72			
9130 1500 VA + 4 battery cabinet*	-	280	191	140	90			
9130 2000 VA*	-	55	40	28	17	11		
9130 2000 VA + 1 battery cabinet*	-	199	139	96	60	48		
9130 2000 VA + 2 battery cabinet*	-	336	226	168	112	93		
9130 2000 VA + 3 battery cabinet*	-	490	311	258	164	127		
9130 2000 VA + 4 battery cabinet*	-	608	444	336	203	162		
9130 3000 VA*	-	55	40	28	16	12	8	7
9130 3000 VA + 1 battery cabinet*	-	199	139	96	60	40	30	21
9130 3000 VA + 2 battery cabinet*	-	336	226	168	109	80	60	52
9130 3000 VA + 3 battery cabinet*	-	490	311	258	169	125	98	87
9130 3000 VA + 4 battery cabinet*	-	608	444	336	215	160	125	104

1) 5110 700 VA backup time 3 min with 700 VA load 2) 5115 1400 VA backup time 5 min with 1400 VA load 3) 9130 700 backup time 5 min at 700 VA load

*) NOTE: 9130 back-up times given with output power factor 0.9

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Load	1000 VA	2000 VA	3000 VA	4 kVA	5 kVA	6 kVA
Series 9, double conversion hardwired UPS						
9130 5/6 kVA*	75	27	19	12	9	6*
9130 5/6 kVA + 1 EBM*	280	120	78	56	41	33*
9130 5/6 kVA + 2 EBM*	480	220	148	102	79	64*
9130 5/6 kVA + 3 EBM*	685	320	211	160	117	96*
9130 5/6 kVA + 4 EBM*	870	420	266	205	162	130*

*) NOTE: 9130 back-up times given with output power factor 0.9, 6 kVA runtime only for 9130 6000

Load	3 kVA	4 kVA	5 kVA	6 kVA	8 kVA	10 kVA	12 kVA	15 kVA
9155 8-15 kVA; 9355 8-15 kVA, with internal battery								
9155/9355 + 1 battery cabinet (7Ah battery)	36	26	20	15	10	6		
9155/9355 + 2 battery cabinets (7Ah battery)	86	66	46	38	28	20	15	10
9155/9355 + 1 battery cabinet (9Ah battery)	42	32	24	21	15	10	8	5
9155/9355 + 2 battery cabinets (9Ah battery)	95	74	61	44	33	25	20	15

Load	5 kVA	10 kVA	15 kVA	20 kVA	25 kVA	30 kVA	35 kVA	40 kVA
9155 20-30 kVA; 9355 20-40 kVA, with internal battery								
9155/9355 + 2 battery cabinets (7Ah battery)	60	24	14	10	6			
9155/9355 + 3 battery cabinets (7Ah battery)	103	41	26	17	12	10	7	5
9155/9355 + 4 battery cabinets (7Ah battery)	152	55	40	26	18	15	11	9
9155/9355 + 1 battery cabinet (9Ah battery)	30	12	7	5				
9155/9355 + 2 battery cabinets (9Ah battery)	70	28	18	13	10	7	5	
9155/9355 + 3 battery cabinets (9Ah battery)	115	46	31	22	16	13	10	8
9155/9355 + 4 battery cabinets (9Ah battery)	158	63	42	31	23	20	15	12

Load	250 VA	500 VA	750 VA	1000 VA	1500 VA	2000 VA	2500 VA	3000 VA	4 kVA	5 kVA	6 kVA
Rackmount models											
Series 5, line-interactive											
5115 RM 500 VA	15	5									
5115 RM 750 VA	35	13	6								
5115 RM 1000 VA	38	15	8	5							
5115 RM 1500 VA	55	28	14	8	5						
5130 1250 VA*	40	20	10	6							
5130 1750 VA*	45	20	12	8	5						
5130 2500 VA*	75	34	20	12	8	5	3				
5130 3000 VA*	90	40	25	15	11	7	5	3			
5125 RM 6 kVA*	>4h	180	100	59	40	26	19	15	10	7	5

*) NOTE: 5125 RM and 5130 RM back-up times given with output power factor 0.9.

Load	250 VA	500 VA	750 VA	1000 VA	1500 VA	2000 VA	2500 VA	3000 VA	4 kVA	5 kVA	6 kVA
Series 9, double conversion											
9130 RM 1000 VA*	30	19	9	6							
9130 RM 1000 VA + 1 EBM*	124	68	43	32							
9130 RM 1000 VA + 2 EBM*	272	113	80	52							
9130 RM 1000 VA + 3 EBM*	368	193	108	82							
9130 RM 1000 VA + 4 EBM*	483	246	158	100							
9130 RM 1500 VA*	-	22	14	9	6						
9130 RM 1500 VA + 1 EBM*	-	85	60	40	25						
9130 RM 1500 VA + 2 EBM*	-	165	112	77	45						
9130 RM 1500 VA + 3 EBM*	-	250	172	117	72						
9130 RM 1500 VA + 4 EBM*	-	280	191	140	90						
9130 RM 2000 VA*	-	40	26	17	9	6					
9130 RM 2000 VA + 1 EBM*	-	155	102	72	47	33			4,5	3,5	
9130 RM 2000 VA + 2 EBM*	-	277	185	129	83	59			25	19	
9130 RM 2000 VA + 3 EBM*	-	398	263	183	130	88			45	34	
9130 RM 2000 VA + 4 EBM*	-	509	344	260	161	119			68	53	
9130 RM 3000 VA*	-	40	26	17	9	6					
9130 RM 3000 VA + 1 EBM*	-	155	102	72	47	33			25	19	
9130 RM 3000 VA + 2 EBM*	-	277	185	129	83	59			45	34	
9130 RM 3000 VA + 3 EBM*	-	398	263	183	122	88			68	53	
9130 RM 3000 VA + 4 EBM*	-	509	344	260	165	119			90	69	

*) NOTE: 9130 back-up times given with output power factor 0.9




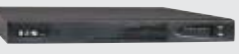

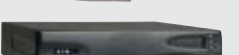








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Load	1 kVA	2 kVA	3 kVA	4 kVA	5 kVA	6 kVA
Powerware Series 9, double conversion hardwired rackmount UPS						
9135 5/6 kVA	36	17	10	7	5	4
9135 5/6 kVA + 1 External Battery Module	132	64	40	29	22	18
9135 5/6 kVA + 2 External Battery Module	232	116	74	53	41	33
9135 5/6 kVA + 3 External Battery Module	332	169	110	80	62	50
9135 5/6 kVA + 4 External Battery Module	433	222	146	107	83	68

Load	1250 VA	2500 VA	5000 VA	7500 VA	8750 VA	10 kVA
Powerware Series 9, double conversion hardwired rackmount UPS						
9140 75/10 kVA	80	31	12	7	6*	5*
9140 75/10 kVA + 1 battery cabinet	137	61	27	17	14*	12*
9140 75/10 kVA + 2 battery cabinets	189	99	52	35	31*	27*
9140 75/10 kVA + 3 battery cabinets	275	138	69	46	40*	35*
9140 75/10 kVA + 4 battery cabinets	365	181	90	60	51*	45*

*) NOTE: 9140 10 kVA

Load	# 42U Rack	4 KW	8 KW	12 KW	24 KW	36 KW	48 KW	60 KW
BladeUPS								
1 x BladeUPS (12 KW Internal battery)	6	6	1	23	8,7	4,7		
+ 1 External Battery Module	9	9	1	41	17,6	9,5		
+ 2 External Battery Module	12	12	1	65	28	17		
+ 3 External Battery Module	15	15	1	93	43	27		
+ 4 External Battery Module	18	18	1	119	55	34		
2 x BladeUPS (12 KW N+1 Internal battery)	12	18	1	44	23	13,6		
+ 1 External Battery Module	18	24	1	85	41	27		
+ 2 External Battery Module	24	30	1	137	65	41		
+ 3 External Battery Module	30	36	1	198	93	59		
+ 4 External Battery Module	36	42	2	257	119	76		
3 x BladeUPS (24 KW N+1 Internal battery)	18	24	1	34	23	8,7		
+ 1 External Battery Module	27	33	1	34	41	17,6		
+ 2 External Battery Module	36	42	2	102	65	28		
+ 3 External Battery Module	45	51	2	147	93	43		
+ 4 External Battery Module	54	60	2	190	119	55		
4 x BladeUPS (36 KW N+1 Internal battery)	24	30	1	30	13,6	7,3		
+ 1 External Battery Module	36	42	2	56	27	14,7		
+ 2 External Battery Module	48	54	2	89	41	24		
+ 3 External Battery Module	60	66	2	1				

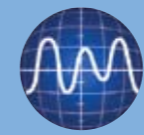
PRODUCT	PART NUMBER	RATING	DIMENSIONS WxDxH (mm)	INPUT CONNECTION	OUTPUT CONNECTION	ACCESSORIES	OPTIONS	EXAMPLE ePDU
 EATON 3105	103004343-5591 103004344-5591 103004249-5591 103004250-5591	350 VA Schuko 500 VA Schuko 350 VA 500 VA	280x180x125 280x180x125 280x180x115 280x180x115	IEC320/10A IEC320/10A IEC320/10A IEC320/10A	3xSchuko+3xSchuko IEC320/10A surge only 3xSchuko+3xSchuko IEC320/10A surge only 4xIEC320/10A+4 IEC320/10A surge only 4xIEC320/10A+4 IEC320/10A surge only	Software & USB cable RJ 11 cable, Software Suite CD Schuko-IEC input cable (with 350-/500 VA Schuko) 2 x IEC-IEC load cables (with 350-/500 VA)		PW104BA0UA66, 16 A, BA
 EATON 5110	103004261-5591 103004262-5591 103004263-5591	500 VA 700 VA 1000 VA	87x260x270 87x260x270 87x384x270	IEC320/10A IEC320/10A IEC320/10A	4xIEC320/10A+4 IEC320/10A surge only 4xIEC320/10A+4 IEC320/10A surge only 4xIEC320/10A+4 IEC320/10A surge only	2 x IEC-IEC load cables Software & USB cable RJ 11 cable, Software Suite CD		PW104BA0UA66, 16 A, BA
 EATON 5115	05146549-5591 05146555-5591 05146561-5591 05146567-5591	500 VA 750 VA 1000 VA 1400 VA	150x268x185 150x333x185 150x333x185 150x388x185	IEC320/10A IEC320/10A IEC320/10A IEC320/10A	4xIEC320/10A 4xIEC320/10A 6xIEC320/10A 6xIEC320/10A	2 x IEC-IEC load cables USB cable RS cable Software Suite CD	External Web/SNMP adapter	PW104ME0UB08, 16 A, ME
 EATON 5115 RM	103003267-6591 103003270-6591 103003273-6591 103003276-6591	500 VA 750 VA 1000 VA 1500 VA	440x580x45 440x580x45 440x580x45 440x580x45	IEC320/10A IEC320/10A IEC320/10A IEC320/10A	4xIEC320/10A 4xIEC320/10A 4xIEC320/10A 4xIEC320/10A	2 x IEC-IEC load cables USB cable, RS cable Software Suite CD Rack slides	ConnectUPS-X Web/SNMP card, Relay/AS400 card,	PW104ME0UB08, 16 A, ME
 EATON 5125	05146630-5591 05146633-5591 05146637-5591	1000 VA 1500 VA 2200 VA	162x401x250 162x467x250 205x493x250	IEC320/10A IEC320/10A IEC320/10A	6xIEC320/10A 6xIEC320/10A 9xIEC320/10A	2 x IEC-IEC load cables RS cable Software Suite CD	External battery cabinet, ConnectUPS-X Web/SNMP card, Relay/AS400 card	PW104ME0UB08, 16 A, ME
 EATON 5125 RM	103003612-5591	6000 VA	445x661x133	IEC309/32A	IEC309 32A plug, 4xIEC320/16A, 4xIEC320/10A	2 x IEC-IEC load cables, RS cable, Software Suite CD Detached Input cable with IEC 309 plug (32 A) Detached Output cable with IEC 309 plug (32 A) Rack slides	External battery cabinet, ConnectUPS-X Web/SNMP card, Relay/AS400 card	PW104ME0UB08, 16 A, ME
 EATON 5130	103006590-6591 103006591-6591 103006592-6591 103006593-6591 103006594-6591	1250 VA 1750 VA 2500 VA 3000 VA 3000 VA	440x509x86 440x509x86 440x634x86 440x634x86 440x484x131	IEC320/10A IEC320/10A IEC320/16A IEC320/16A IEC320/16A	8xIEC320/10A 8xIEC320/10A 8xIEC320/10A; 1xIEC320/16A 8xIEC320/10A; 1xIEC320/16A 8xIEC320/10A; 1xIEC320/16A	2 x IEC-IEC load cables, USB cable, RS cable, Rack rail kit, Tower mounting kit, Software Suite CD; Schuko IEC input cable (2.5 & 3kVA models)	External battery cabinet, External Service Bypass switch, ConnectUPS-MS Network Management Card, Relay/Serial Management Card -MS	PW104ME0UB08, 16 A, ME
 EATON 9130	103006433-6591 103006434-6591 103006435-6591 103006436-6591 103006437-6591 103007841-6591 103007842-6591	700 VA 1000 VA 1500 VA 2000 VA 3000 VA 5000 VA 6000 VA	160x350x230 160x380x230 160x430x230 214x410x325 214x410x325 244x542x574 244x542x574	IEC320/10A IEC320/10A IEC320/10A IEC320/10A IEC320/16A IEC320/16A Hardwired	6xIEC320/10A 6xIEC320/10A 6xIEC320/10A 8xIEC320/10A; 1xIEC320/16A 8xIEC320/10A; 1xIEC320/16A Hardwired	Schuko-IEC input cable; 2 x IEC-IEC load cables, IEC-3-schuko strip output cable, USB cable, RS cable, Software Suite CD USB cable, RS cable, Software Suite CD USB cable, RS cable, Software Suite CD	External battery cabinet, External Service Bypass switch, ConnectUPS-MS Web/SNMP card, Relay/AS400 card	PW104BA0UB73, 16 A, BA PW104ME0UB08, 16 A, ME PW104MI0UA83, 16 A, MI PW107MA0UB75, 32 A, MA
 EATON 9130 RM	103006455-6591 103006456-6591 103006457-6591 103006463-6591	1000 VA 1500 VA 2000 VA 3000 VA	438x450x87 438x450x87 438x600x87 438x600x87	IEC320/10A IEC320/10A IEC320/10A IEC320/16A	6xIEC320/10A 6xIEC320/10A 8xIEC320/10A; 1xIEC320/16A 8xIEC320/10A; 1xIEC320/16A	Schuko-IEC input cable; 2 x IEC-IEC load cables, IEC-3-schuko strip output cable, USB cable, RS cable, Rack rail kit, Software Suite CD	External battery cabinet, External Service Bypass switch, ConnectUPS-MS Web/SNMP card, Relay/AS400 card	PW104BA0UB73, 16 A, BA PW104ME0UB08, 16 A, ME PW104MI0UA83, 16 A, MI PW107MA0UB75, 32 A, MA
 EATON 9135	103006721-6591 103006722-6591	5000 VA 6000 VA	445x735x131 445x735x131	Hardwired Hardwired	Hardwired; 8xIEC320/10A; 2xIEC320/16A Hardwired; 8xIEC320/10A; 2xIEC320/16A	4 x IEC-IEC load cables, RS cable, Rack rail kit, Tower mounting kit, Software Suite CD;	External battery cabinet, ConnectUPS-MS Network Management Card, Relay/Serial Management Card -MS	PW104BA0UB73, 16 A, BA PW107BA0UB74, 32 A, BA PW104ME0UB08, 16 A, ME PW104MI0UB75, 16 A, MI PW107MA0UB75, 32 A, MA
 EATON 9140	103005093-6591 103004728-6591	7.5 kVA 10 kVA	430x790x263 430x790x263	Hardwired Hardwired	Hardwired Hardwired	USB cable, RS cable Software Suite CD Rack Rail Kit	ConnectUPS-X Web/SNMP card, Relay/AS400 card, External battery cabinets	PW104BA0UB73, 16 A, BA PW107BA0UB74, 32 A, BA PW104ME0UB08, 16 A, ME PW104MI0UB75, 16 A, MI PW107MA0UB75, 32 A, MA
 EATON 9155	9155-81-S, 9155-81-N* 9155-101-S, 9155-101-N* 9155-121-N* 9155-151-N* 9155-20-N* 9155-30-N*	8 kVA 10 kVA 12 kVA 15 kVA 20 kVA 30 kVA	305x702x817, 305x702x1214* 305x702x817, 305x702x1214* 305x702x817, 305x702x1214* 305x702x817, 305x702x1214* 494x762x1684, 494x758x1684* 494x762x1684, 494x758x1684*	1-ph (8/10 kVA), 3-ph (8-15 kVA) input hardwired, Bypass input (redundancy) hardwired	1-ph, output hardwired 1-ph, output hardwired 1-ph, output hardwired 1-ph, output hardwired 1-ph, output hardwired 1-ph, output hardwired	RS cable Software Suite CD	External battery cabinets, ConnectUPS-X Web/SNMP card, Relay/AS400 card, Isolation Transformer	PW104BA0UB73, 16 A, BA PW107BA0UB74, 32 A, BA PW104ME0UB08, 16 A, ME PW104MI0UB75, 16 A, MI PW107MA0UB75, 32 A, MA
 EATON 9355	9355-8-N* 9355-10-N* 9355-12-N* 9355-15-N* 9355-20-N* 9355-30-N* 9355-40-N*	8 kVA 10 kVA 12 kVA 15 kVA 20 kVA 30 kVA 40 kVA	305x702x817, 305x702x1214* 305x702x817, 305x702x1214* 305x702x817, 305x702x1214* 305x702x817, 305x702x1214* 494x762x1684 494x762x1684 494x762x1684	3-ph input hardwired, Bypass input (redundancy) hardwired	3-ph, output hardwired 3-ph, output hardwired 3-ph, output hardwired 3-ph, output hardwired 3-ph, output hardwired 3-ph, output hardwired 3-ph, output hardwired	RS cable Software Suite CD	External battery cabinets, ConnectUPS-X Web/SNMP card, AS400 card, Isolation Transformer	PW104BA0UB73, 16 A, BA PW107BA0UB74, 32 A, BA PW104ME0UB08, 16 A, ME PW104MI0UB75, 16 A, MI PW107MA0UB75, 32 A, MA
 EATON BladeUPS	ZC1224410100000 ZC1224010100000 ZC122P060100000	12 kVA 12 kVA 12 kVA	442x660x261 (6U) 442x660x261 (6U) 442x660x261 (6U)	IEC 309/32A IEC 309/32A IEC 309/32A	IEC 309/32A Connector for RPM Parallel cord	Rail & Accessory Kit Web SNMP (with single unit) RS cable Software Suite CD	External battery cabinets, ConnectUPS-X Web/SNMP card, Relay/AS400 card, Blade Bar kit, Blade UPS Rack, RPM (Rack Power Module)	PW107BA0UC08, 16 A, BA PW107MI0UC08, 16 A, MI for more information on ePDUs – see www.ePDU.com

* part description

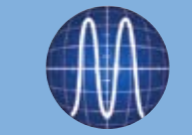
* with extra runtime



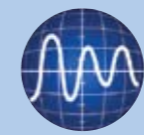
1. POWER FAILURE



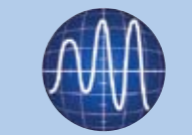
2. POWER SAG



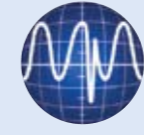
3. POWER SURGE



4. UNDERVOLTAGE



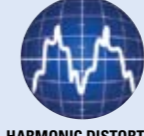
5. OVERVOLTAGE



6. SWITCHING TRANSIENT



7. LINE NOISE



9. HARMONIC DISTORTION



8. FREQUENCY VARIATION

Series 3: Off-Line

Series 5: Line Interactive

Series 9: Double Conversion

Determine the level of power protection

Series 3 Single Conversion ("Off-Line")

Basic solutions to protect non-critical hardware and data against three of the nine power problems. **Typical applications:** Standalone PCs, telefax, home equipment, etc.

Series 5 Line Interactive

Higher protection level against 5 types of power problems. Intermediate solutions for office environment and servers featuring good communication options. These UPSs provide protection against the five most common power problems. **Typical applications:** PC/small servers, network equipment, small storage equipment, etc.

Series 9 Double Conversion, ("On-Line")

Full power protection against all 9 types of power problems. These double-conversion UPSs with excellent connectivity and communication features provide full protection against all nine types of power problems. **Typical applications:** Critical 24/7 servers, other critical IT applications, etc.

Complement your UPS system with Eaton ePDU



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 information on ePDUs – see www.ePDU.com