

Extended Battery with Charger Unit (EBCU)



Extended runtimes for mission critical applications during a power failure is becoming the norm in today's fast paced working environments. Whether your critical application lies in Information Technology, Communications, or Industrial Environments, Powerware can provide a solution for up to 8 hours of runtime.

The combination of Powerware's Extended Battery with Charger Unit (EBCU) and our award-winning Powerware 9 Prestige UPS provides a modular, cost-effective solution for longer battery runtimes. Whether you need 1,2, or up to 8 hours of battery backup, Powerware can provide a single EBCU cabinet or as many as six to match individual needs.

Powerware's patented Cell Saver® Technology assures that battery usage is minimized even in severe operating environments, resulting in maximized battery life. In addition, optional battery chargers allow configuration of the charge capacity that best suits your installation.

The Powerware 9 Prestige with the EBCU provides for hot-swappable extended battery cabinets to ensure hours of runtime during prolonged power outages or brownouts. Automatic battery diagnostics alert you when batteries need to be replaced, before disaster strikes. Convenient external connections allow battery cabinets to be hot-swapped without interrupting power to your load.

Specifications¹

Electrical		
Nominal Output Voltage(s)	60 Vdc	120 Vdc
For use with UPS Model	Powerware 9 Prestige 750 EXT, 800 EXT, 1000 EXT, 1250 EXT, 1500 EXT, 1800 EXT, 2000 EXT	Powerware 9 Prestige 2500, 3000, 4500 ² , 6000 ²
Batteries per Cabinet	20 each, 17 AH	
Recharge Current	> 1.1 amperes per 60 Vdc or 120 Vdc string	
Expected Battery Life	3-5 years	
Nominal Float Voltage(s)	69 Vdc, 138 Vdc (2.3 V/cell)	
End of Discharge Voltage(s)	51 Vdc, 102 Vdc (1.7 V/cell)	
Charger Input Voltage Range	85-264 Vac (120, 200, 208, 220, 230 and 240 Vac nominal)	
Charger Input Frequency Range	45-65 Hz	
Input Surge Withstandability	Per EN50082-1 (IEC801-4), IEC 801-5	
AC Input Connection	Factory-supplied line cord with 5-15 plug	
EBCU to UPS Connection	Custom Mate-N-Lock connector	
EBCU to EBCU Connection (for installations with up to 6 EBCUs)	Custom Mate-N-Lock connector	
Mechanical		
Outline Dimensions (H x W x D)	28.1" x 8.5" x 28.2" / 714 mm x 216 mm x 716 mm	
Portability	Caster base with seismic mounting option	
Internal Accessibility	Batteries are replaceable from the side. Opening accessible without disrupting the position of adjacent cabinets	
Modularity	Battery charger is field replaceable and mounts on the rear of the unit with simple attachment hardware	
Weight	360 lb/164 kg	
Battery		
Battery Type	Sealed lead-acid/maintenance free	
Recharge Time	See Table A	
Full Load Support Time	See Table B	
General		
Agency Approvals	UL listed, CSA certified, Certified to EN60950 and EN50091-1, CE approved	
EMI	CISPR-22 A, FCC A	
Environmental		
Elevation	5000 ft. maximum without derating	
Relative Humidity	5% to 95% non-condensing	
Storage Temperature/Operating Temperature	-20 to 60°C/0 to 35°C	
Acoustical Noise (during recharge)	< 60 dB @ 1 meter	
Acoustical Noise (non-recharge mode)	< 50 dB @ 1 meter	

TABLE A
EBCU Recharge Times to 80% Capacity

Discharge Time	1 hour	2 hours	4 hours	8 hours
EBCU system with all chargers	14 hours	16 hours	20 hours	30 hours
EBCU system with chargers on every other EBCU	30 hours	35 hours	50 hours	70 hours

TABLE B
DISCHARGE TIME @ 100% OF THE UPS RATING³
Minimum Number of Cabinets for Each System

Hours	1500 VA	2000 VA	3000 VA	4500 VA	6000 VA
1.0	N/A ⁴	1	1	2	2
2.0	1	2	2	3	4
4.0	2	3	4	5	6
8.0	3	4	6	N/A	N/A

¹. Due to continuing product improvement programs, specifications are subject to change without notice. ². Requires use of PowerPass Distribution Module. ³. Based on a .67 power factor load. ⁴. Can be obtained with use of single unit EBCs.

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