







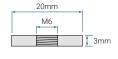


PHR-12400 12V 110.0 AH @ 20-hr. 430 W/Cell @ 15-min.

Rechargeable Sealed Lead Acid Battery PHR - High-Rate Series

TERMINALS: (mm)

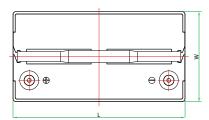
Threaded insert with 6mm stud fastener





Torque: 3.9~5.4 Nxm

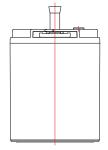
DIMENSIONS: inch (mm)



12.81(326) 6.69 (170) **H:** 8.39 (213) HT: 8.50 (216)

Tolerances are +/- 0.04 in (+/- 1mm) and +/- 0.08 in. (+/- 2mm) for height dimensions. All data subject to change without notice.





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To ensure safe and efficient operation always refer to the latest edition of our Technical Manual, as published on our website © 2018. Power-Sonic Corporation. All rights reserved. All trademarks are the property of their respective owners All data subject to change without notice. E&O.E

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FEATURES

- Superb high-rate discharge characteristics that ensure reliable performance in UPS applications for up to
- · Specifically designed for UPS and critical power backup applications
- Valve regulated, maintenance free spill proof construction
- · Precision plate pasting for higher consistency with 100% load testing to ensure uniform capacity
- Patented dual-paste process for enhanced active material bonding and computer guided volumetric electrolyte control for precision filling
- · Rugged vibration and impact resistant ABS case and cover flame retardant to UL94-V0

APPROVALS

- Approved for transport by air. D.O.T., I.A.T.A., F.A.A. and C.A.B. certified
- U.L recognized
- ISO9001:2015 Quality management systems

PERFORMANCE SPECIFICATIONS

PERFUR	MANCE SPECIFICATIONS						
Nominal '	Voltage	12 volts (6 cells)					
Nominal	Power (15 min.)	430 W/Cell					
1	pacity (5.5A to 10.80 volts) (10.7A to 10.50 volts) (12.9A to 10.50 volts)	110.0 AH 107.0 AH 103.2 AH					
Approxim	nate Weight	69.2 lbs. (31.4 kg)					
Internal F	Resistance (approx.)	3.6 milliohms					
Max Disc	harge Current (5 Sec.)	1650 amperes					
Shelf Life 1 Month 3 Month 6 Month	e (% of nominal capacity at 68°F (20°C)	97% 91% 83%					
Operating Charge Discharge	g Temperature Range	5°F (-15°C) to 122°F (50°C) -4°F (-20°C) to 140°F (60°C)					
Case and	Cover	Flame Retardant ABS Plastic UL94:V-0					
Power So	onic Chargers	PSC-1220000-PC					



PHR-12400 12V 110.0 AH @ 20-hr. 430 W/Cell @ 15-min.

Rechargeable Sealed Lead Acid Battery
PHR - High-Rate Series

CONSTANT	CURREN	IT DISCH	ARGE (AM	IPERES) A	IT 25°C (77°F)									
F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	216.5	183.3	159.3	136.4	104.9	76.9	61.6	35.8	26.4	21.2	17.8	15.4	12.3	10.3	5.38
1.80V/cell	264.0	210.3	176.9	149.5	112.4	82.9	65.6	37.7	27.6	22.0	18.5	15.9	12.6	10.5	5.50
1.75V/cell	297.0	230.3	193.6	161.7	119.7	86.8	68.9	39.5	28.7	22.6	18.8	16.3	12.9	10.7	5.63
1.70V/cell	335.3	254.1	209.9	173.9	128.0	91.8	72.5	41.1	29.6	23.2	19.3	16.6	13.2	10.9	5.72
1.65V/cell	363.0	275.2	227.0	186.8	135.3	96.5	75.9	42.4	30.4	23.8	19.8	17.0	13.5	11.1	5.82
1.60V/cell	390.7	298.7	243.3	198.3	142.6	100.3	78.4	43.8	31.2	24.6	20.3	17.5	13.8	11.3	5.98
CONSTANT	POWER	DISCHAR	GE (WATT	S/CELL) /	AT 25°C (77°F)									
F.V/Time	5min	10min	15min	20min	30min	45min	1h	OI.	01	41.		O.L.	0 L	10L	
1.85V/cell					JUILLII	TUIIIII		2h	3h	4h	5h	6h	8h	10h	20h
1.001/0011	421.2	358.6	313.4	269.7	208.5	153.4	123.4	71.9	3h 53.3	41.9	36.1	31.4	25.2	21.2	20h 11.1
1.80V/cell	421.2 508.2	358.6 407.2	313.4 344.5							***					
				269.7	208.5	153.4	123.4	71.9	53.3	42.9	36.1	31.4	25.2	21.2	11.1
1.80V/cell	508.2	407.2	344.5	269.7 292.7	208.5 221.4	153.4 164.2	123.4 130.4	71.9 75.5	53.3 55.4	42.9 44.4	36.1 37.4	31.4 32.3	25.2 25.8	21.2 21.5	11.1 11.3
1.80V/cell 1.75V/cell	508.2 565.9	407.2 441.9	344.5 373.7	269.7 292.7 313.9	208.5 221.4 233.7	153.4 164.2 170.6	123.4 130.4 136.0	71.9 75.5 78.5	53.3 55.4 57.2	42.9 44.4 45.3	36.1 37.4 37.8	31.4 32.3 32.8	25.2 25.8 26.2	21.2 21.5 21.8	11.1 11.3 11.5
1.80V/cell 1.75V/cell 1.70V/cell	508.2 565.9 631.6	407.2 441.9 482.1	344.5 373.7 400.4	269.7 292.7 313.9 334.0	208.5 221.4 233.7 247.6	153.4 164.2 170.6 178.7	123.4 130.4 136.0 142.0	71.9 75.5 78.5 81.1	53.3 55.4 57.2 58.7	42.9 44.4 45.3 46.2	36.1 37.4 37.8 38.4	31.4 32.3 32.8 33.3	25.2 25.8 26.2 26.6	21.2 21.5 21.8 22.1	11.1 11.3 11.5 11.6

CHARGING

Cycle Applications: Apply constant voltage charge at 2.35v/c - 2.45v/c (14.1 – 14.7v for 12v Monobloc) at 20°C. Initial charging current should be set at less than 0.25C Amps. Switch to float charge to avoid overcharging.

"Float" or "Stand-By" Service: Apply constant voltage charge of 2.25v/c – 2.30v/c (13.5 to 13.8 volts for 12v Monobloc at 20°C. When held at this voltage, the battery will seek its own current level and maintain itself in a fully charged condition.

Temperature Compensation: Charging Voltage for both Cyclic and Standby applications should be regulated in relation to ambient temperature. As temperature rises charging voltage should be reduced to prevent overcharge and increased as temperature falls to avoid undercharge.

For further charging information including temperature compensation factors, see Power Sonic Technical Manual/Power Sonic Charger specifications.

APPLICATIONS

High Rate UPS

Data Centers

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CHARGERS

Power Sonic offers a wide range of chargers suitable for batteries with a variety of capacities.

Please refer to our website for more information on our switch mode and transformer type chargers.

Please contact our technical department for advice if you have difficulty in locating a suitable charger.

FURTHER INFORMATION

Please refer to our website **www.power-sonic.com** for a complete range of useful downloads, such as product catalogs, material safety data sheets (MSDS), ISO certification, etc.

