









PHR-1290 12V 21.2 AH @ 20-hr. 90 W/Cell @ 15-min.

Rechargeable Sealed Lead Acid Battery PHR - High-Rate Series

TERMINALS: (mm)

T12-A: Threaded insert with 3mm stud fastener





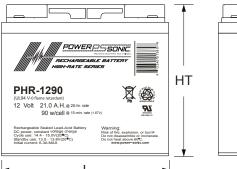
Torque: 2.0~3.0 Nxm

DIMENSIONS: inch (mm)



7.14 (181) **W**: 2.99 (76) **H**: 6.56 (167) **HT**: 6.56 (167)

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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CORPORATE HEADQUARTERS (USA AND INTERNATIONAL EXCLUDING EMEA)

Power-Sonic Corporation

7550 Panasonic Way, San Diego, California 92154

T: +1 (619) 661 2020

F: +1 (619) 661 3650

E: customer-service@power-sonic.com

POWER-SONIC EUROPE LIMITED

(EMEA - EUROPE, MIDDLE EAST AND AFRICA)

3 Buckingham Square, Hurricane Way, Wickford, Essex SS11 8YQ

T: +44 (0)1268 560686 F: +44 (0)1268 560902

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E: salesEMEA@power-sonic.com

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

Nominal V	oltage	12 volts (6 cells)					
Nominal P	ower (15 min.)	90 W/Cell					
Rated Cap 20-hr. 10-hr. 8-hr.	(1.06A to 10.80 volts) (2.00A to 10.50 volts)	21.2 AH 20.0 AH 19.5 AH					
Approxima	te Weight	14.00 lbs. (6.35 kg)					
Internal Re	esistance (approx.)	7.0 milliohms					
Max Disch	arge Current (5 Sec.)	470 amperes					
Shelf Life 1 Month 3 Month 6 Month	(% of nominal capacity at 68°F (20°C)	97% 91% 83%					
Operating Charge Discharge	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 Son	ic Chargers	PSC-124000-PC PSC-243500-PC					



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Rechargeable Sealed Lead Acid Battery
PHR - High-Rate Series

CONSTANT	CURREN	IT DISCH	ARGE (AN	IPERES) <i>i</i>	NT 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	55.4	41.2	35.2	29.8	21.8	15.7	12.3	6.9	5.0	4.0	3.4	2.9	2.3	1.9	1.0	
1.80V/cell	63.4	46.7	39.0	32.7	23.6	16.8	13.1	7.3	5.3	4.2	3.5	3.1	2.4	2.0	1.1	
1.75V/cell	71.7	51.2	42.5	34.8	24.9	17.6	13.7	7.6	5.5	4.4	3.6	3.1	2.4	2.0	1.1	
1.70V/cell	79.4	56.2	45.7	36.9	26.1	18.3	14.1	7.8	5.6	4.4	3.7	3.2	2.5	2.0	1.1	
1.65V/cell	86.5	60.5	48.9	38.5	26.8	18.7	14.5	7.9	5.7	4.5	3.7	3.2	2.5	2.1	1.1	
1.60V/cell	93.4	63.1	50.2	39.2	27.2	18.9	14.6	8.0	5.8	4.6	3.8	3.2	2.5	2.1	1.1	
CONSTANT	POWER	DISCHAR	GE (WATT	(S/CELL)	AT 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	103.8	78.4	67.9	58.1	42.9	31.1	24.6	13.9	10.1	8.1	6.9	5.9	4.7	3.9	2.1	
1.80V/cell	117.4	87.9	74.6	63.2	46.1	33.2	26.1	14.6	10.7	8.5	7.2	6.2	4.9	4.1	2.2	
1.75V/cell	130.7	95.1	80.3	66.5	48.3	34.6	27.1	15.1	10.9	8.8	7.3	6.3	5.0	4.1	2.2	
1.70V/cell	142.2	102.8	85.2	69.8	50.3	35.7	27.9	15.5	11.2	8.9	7.4	6.4	5.0	4.2	2.2	
1.65V/cell	151.7	108.9	90.0	71.9	51.3	36.2	28.3	15.7	11.4	9.0	7.5	6.5	5.1	4.2	2.3	
1.001/6611	101.7	100.5	20.0	/ 1. /	01.0	30.2	20.5	13.7	11.7	5.0	7.0	0.0	0.1	7.2		
1.60V/cell	160.8	111.8	90.9	72.3	51.4	36.2	28.4	15.7	11.4	9.1	7.6	6.5	5.1	4.2	2.3	

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.

