

TRUSTED BATTERY SOLUTIONS









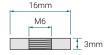


# PHR-12200 12V 58.0 AH @ 20-hr. 225 W/Cell @ 15-min.

**Rechargeable Sealed Lead Acid Battery** PHR - High-Rate Series

#### TERMINALS: (mm)

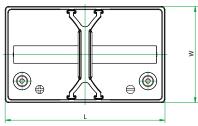
Threaded insert with 3mm stud fastener





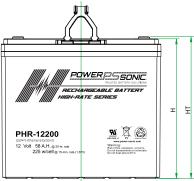
Torque: 3.9~5.5 Nxm

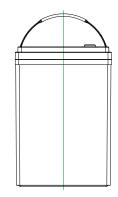
#### **DIMENSIONS: inch (mm)**



9.02 (229) 5.43 (138) H: 7.87 (200) HT: 7.99 (203)

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





#### **CORPORATE HEADOUARTERS** (USA AND INTERNATIONAL EXCLUDING EMEA)

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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**

Nominal	Voltage	12 volts (6 cells)
Nominal	Power (15 min.)	225 W/Cell
Rated Ca 20-hr. 10-hr. 8-hr.	(2.90A to 10.80 volts) (5.50A to 10.50 volts)	58.0 AH 55.0 AH 53.6 AH
Approxin	nate Weight	38.1 lbs. (17.3 kg)
Internal F	Resistance (approx.)	5.0 milliohms
Max Disc	charge Current (5 Sec.)	825 amperes
Shelf Life 1 Month 3 Month 6 Month	e (% of nominal capacity at 68°F (20°C)	97% 91% 83%
Operating Charge Discharg	<b>g Temperature Range</b> e	5°F (-15°C) to 122°F (50°C) -4°F (-20°C) to 140°F (60°C)
Case and	l Cover	Flame Retardant ABS Plastic UL94:V-0
Power So	onic Chargers	PSC-1210000-PC



## PHR-12200 12V 58.0 AH @ 20-hr. 225 W/Cell @ 15-min.

**Rechargeable Sealed Lead Acid Battery** PHR - High-Rate Series

CONSTANT	I CURREN	IT DISCH <i>i</i>	ARGE (AM	IPERES) A	11 20 6 (/	., .,									
F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	111.4	77.6	64	55.6	44.6	34.2	28	17.12	13.04	10.72	9.1	7.88	6.26	5.2	2.88
1.80V/cell	137	92.6	74.2	62.8	49.4	37.4	30.2	18.18	13.7	11.26	9.48	8.22	6.5	5.4	2.9
1.75V/cell	162.2	104.8	81.8	68.4	52.6	39.6	31.8	18.96	14.2	11.62	9.74	8.42	6.68	5.5	2.92
1.70V/cell	184	115.6	88.6	73.4	55.4	41.2	33	19.74	14.66	11.9	9.98	8.64	6.78	5.6	2.98
1.65V/cell	202	124.2	93.8	77	57.6	42.8	34.4	20.4	15.02	12.16	10.2	8.8	6.88	5.66	3.02
															0.04
1.60V/cell	212	129.4	97.6	79.6	59.2	43.8	35.2	21	15.38	12.46	10.42	8.98	7.02	5.76	3.04
1.60V/cell							35.2	21	15.38	12.46	10.42	8.98	7.02	5./6	3.04
							35.2 1h	21 2h	15.38 3h	12.46 4h	10.42 5h	8.98 6h	7.02 8h	5.76 10h	20h
CONSTANT	POWER	DISCHAR	GE (WATT	S/CELL) /	AT 25°C (	77°F)									
CONSTANT F.V/Time	POWER 5min	DISCHAR 10min	GE (WATT 15min	S/CELL) <i>L</i> 20min	<b>AT 25°C (</b> 30min	<b>77°F)</b> 45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
CONSTANT F.V/Time 1.85V/cell	FOWER 5min 262.3	DISCHAR 10min 196.5	<b>GE (WATT</b> 15min 166.3	<b>S/CELL)</b> <i>L</i> <b>20</b> min 143.9	AT 25°C ( 30min 110.9	<b>77°F)</b> 45min 81.1	1h 65.0	<b>2</b> h 38.5	3h 27.7	4h 21.9	<b>5h</b> 18.3	6h 15.8	8h 12.6	<b>10h</b> 10.5	<b>20h</b> 5.46
CONSTANT F.V/Time 1.85V/cell 1.80V/cell	5min 262.3 308.7	DISCHAR 10min 196.5 221.1	<b>GE (WATT</b> 15min 166.3 186.4	20min 143.9 157.0	<b>AT 25°C (</b> 30min 110.9 118.1	<b>77°F) 45</b> min 81.1 85.3	1h 65.0 68.0	2h 38.5 39.9	3h 27.7 28.6	4h 21.9 22.5	5h 18.3 18.8	6h 15.8 16.2	8h 12.6 12.9	10h 10.5 10.8	20h 5.46 5.65
CONSTANT F.V/Time 1.85V/cell 1.80V/cell 1.75V/cell	5min 262.3 308.7 353.2	DISCHAR 10min 196.5 221.1 242.4	GE (WATT 15min 166.3 186.4 199.6	20min 143.9 157.0 166.5	AT 25°C ( 30min 110.9 118.1 122.7	77°F) 45min 81.1 85.3 88.3	1h 65.0 68.0 70.0	2h 38.5 39.9 41.0	3h 27.7 28.6 29.2	4h 21.9 22.5 22.9	5h 18.3 18.8 19.0	6h 15.8 16.2 16.4	8h 12.6 12.9 13.1	10h 10.5 10.8 10.9	20h 5.46 5.65 5.75

#### **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.

