

TRUSTED BATTERY SOLUTIONS







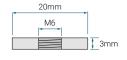


PHR-12550 12V 155.0 AH @ 20-hr. 539 W/Cell @ 15-min.

Rechargeable Sealed Lead Acid Battery PHR - High-Rate Series

TERMINALS: (mm)

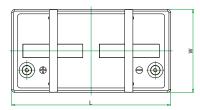
Threaded insert with 6mm stud fastener





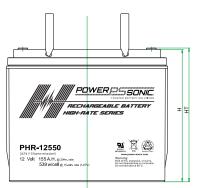
Torque: 3.9~5.4 Nxm

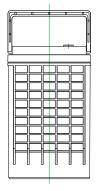
DIMENSIONS: inch (mm)



13.19 (335) 6.77 (172) 10.83 (275) HT: 10.94 (278)

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)

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

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 '	Voltage	12 volts (6 cells)				
Nominal	Power (15 min.)	539 W/Cell				
10-hr.	pacity (7.5A to 10.80 volts) (14.3A to 10.50 volts) (17.5A to 10.50 volts)	155.0 AH 143.0 AH 140.0 AH				
Approxim	nate Weight	93.5 lbs. (42.4 kg)				
Internal F	Resistance (approx.)	3.1 milliohms				
Max Disc	harge Current (5 Sec.)	2015 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 e	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-12550 12V 155.0 AH @ 20-hr. 539 W/Cell @ 15-min.

Rechargeable Sealed Lead Acid Battery
PHR - High-Rate Series

CONSTANT	r Curren	IT DISCH	ARGE (AM	IPERES) <i>E</i>	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	282.7	227.9	197.5	173.4	138.3	106.0	87.0	51.5	37.2	29.6	24.6	21.4	17.1	14.3	7.57
1.80V/cell	327.4	252.0	217.6	192.0	150.7	114.1	92.1	54.0	38.8	30.7	25.5	22.1	17.6	14.7	7.75
1.75V/cell	381.3	281.8	241.2	207.9	161.8	121.1	97.3	56.3	40.1	31.5	26.1	22.6	17.9	15.0	7.93
1.70V/cell	425.9	309.7	265.0	225.9	173.3	127.9	102.0	58.2	41.2	32.3	26.7	23.0	18.3	15.3	8.06
1.65V/cell	466.9	341.3	288.5	240.4	180.8	133.3	105.6	60.1	42.4	33.1	27.3	23.5	18.7	15.5	8.20
							400 5	(17	43.2	34.0	28.0	24.2	19.1	15.9	8.36
1.60V/cell	507.8	369.2	304.4	253.4	190.0	138.9	109.5	61.7	43.2	34.0	20.0	24.2	19.1	13.9	0.30
1.60V/cell CONSTANT							109.5	61.7	45.2	34.0	20.0	24.2	19.1	13.9	0.30
							109.5	2h	3h	34:0 4h	28.0 5h	6h	8h	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) A	AT 25°C (30min	77°F) 45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
CONSTANT F.V/Time 1.85V/cell	5min 537.7	DISCHAR 10min 438.4	GE (WATT 15min 382.7	20min 337.8	AT 25°C (30min 271.0	77°F) 45min 209.1	1h 172.5	2h 102.8	3h 74.4	4h 59.5	5h 49.8	6h 43.5	8h 34.9	10h 29.5	20 h 15.6
CONSTANT F.V/Time 1.85V/cell 1.80V/cell	5min 537.7 615.4	DISCHAR 10min 438.4 480.8	GE (WATT 15min 382.7 417.8	20min 337.8 371.3	AT 25°C (30min 271.0 293.0	77°F) 45 min 209.1 223.2	1h 172.5 181.3	2h 102.8 106.8	3h 74.4 77.1	4h 59.5 61.2	5h 49.8 51.1	6h 43.5 44.4	8h 34.9 35.6	10h 29.5 30.0	20h 15.6 15.9
CONSTANT F.V/Time 1.85V/cell 1.80V/cell 1.75V/cell	5min 537.7 615.4 710.1	DISCHAR 10min 438.4 480.8 530.7	GE (WATT 15min 382.7 417.8 458.9	20min 337.8 371.3 398.9	AT 25°C (30min 271.0 293.0 312.2	77°F) 45min 209.1 223.2 235.1	1h 172.5 181.3 190.2	2h 102.8 106.8 110.7	3h 74.4 77.1 79.2	4h 59.5 61.2 62.5	5h 49.8 51.1 52.0	6h 43.5 44.4 45.2	8h 34.9 35.6 36.1	10h 29.5 30.0 30.4	20h 15.6 15.9 16.2

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 2.25 v/c - 2.30 v/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

To ensure safe and efficient operation always refer to the latest edition of our Technical Manual, as published on our website.

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All data subject to change without notice. E&O.E

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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.

