

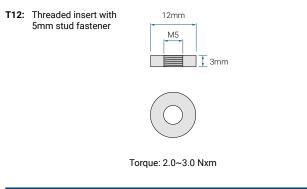




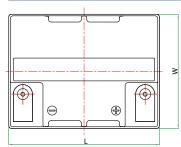
PHR-12100 12V 27.0 AH @ 20-hr. 93 W/Cell @ 15-min.

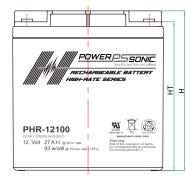
Rechargeable Sealed Lead Acid Battery PHR – High-Rate Series

TERMINALS: (mm)



DIMENSIONS: inch (mm)





CORPORATE HEADQUARTERS (USA AND INTERNATIONAL EXCLUDING EMEA)

 Power-Sonic Corporation

 7550 Panasonic Way, San Diego,

 California 92154

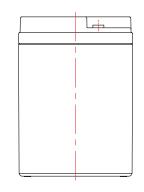
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L: 6.46 (164) W: 4.92 (125) H: 6.89 (175) HT: 6.50 (165)

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



POWER-SONIC EUROPE LIMITED (EMEA – EUROPE, MIDDLE EAST AND AFRICA)

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FEATURES

- Superb high-rate discharge characteristics that ensure reliable performance in UPS applications for up to 10 years
- 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.)	93 W/Cell
Rated Ca 20-hr. 10-hr. 8-hr.	(1.35A to 10.80 volts) (2.66A to 10.50 volts)	27.0 AH 26.6 AH 25.8 AH
Approxin	nate Weight	20.9 lbs. (9.48 kg)
Internal I	Resistance (approx.)	10.0 milliohms
Max Disc	charge Current (5 Sec.)	540 amperes
Shelf Life 1 Month 3 Month 6 Month	e (% of nominal capacity at 68°F (20°C)	97% 91% 83%
Operatin Charge Discharg	g Temperature Range 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 Se	onic Chargers	PSC-124000-PC PSC-243500-PC

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PHR-12100 12V 27.0 AH @ 20-hr. 93 W/Cell @ 15-min.

Rechargeable Sealed Lead Acid Battery PHR – High-Rate Series

CONSTANT	CONSTANT CURRENT DISCHARGE (AMPERES) 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	62.5	47.7	39.0	33.0	25.7	19.5	15.8	9.40	6.86	5.44	4.51	3.88	3.05	2.54	1.32
1.80V/cell	71.2	52.8	42.2	34.9	27.2	20.6	16.8	9.88	7.12	5.61	4.67	4.01	3.15	2.61	1.35
1.75V/cell	81.1	56.4	44.8	37.3	28.3	21.3	17.3	10.20	7.32	5.74	4.75	4.08	3.22	2.66	1.38
1.70V/cell	89.1	60.3	46.8	38.6	29.2	21.9	17.7	10.40	7.47	5.88	4.87	4.19	3.29	2.71	1.40
1.65V/cell	94.8	63.0	48.9	40.1	30.1	22.5	18.2	10.60	7.62	5.98	4.98	4.28	3.34	2.75	1.43
1.60V/cell	98.5	65.1	50.5	41.5	31.1	23.0	18.6	10.80	7.76	6.12	5.10	4.37	3.41	2.81	1.47

CONSTANT POWER DISCHARGE (WATTS/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	121.5	93.3	76.8	65.3	51.0	38.9	31.7	18.9	13.9	11.0	9.18	7.91	6.26	5.22	2.74	
1.80V/cell	137.1	102.2	82.2	68.4	53.6	40.8	33.4	19.8	14.3	11.3	9.45	8.13	6.42	5.33	2.77	
1.75V/cell	154.5	108.1	86.6	72.3	55.3	41.7	34.1	20.2	14.6	11.5	9.55	8.23	6.52	5.42	2.82	
1.70V/cell	167.8	114.3	89.2	74.2	56.6	42.6	34.8	20.5	14.8	11.7	9.72	8.39	6.61	5.47	2.85	
1.65V/cell	177.1	118.7	92.8	76.3	57.9	43.4	35.5	20.8	15.0	11.8	9.89	8.53	6.70	5.54	2.89	
1.60V/cell	181.9	121.3	94.8	78.2	59.3	44.0	35.9	21.0	15.2	12.0	10.0	8.62	6.77	5.61	2.94	

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.



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