

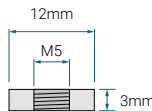


PS-12180HD-M5 12V 18.0 AH @ 20-hr. 12V 16.7 AH @ 10-hr.

Rechargeable Sealed Lead Acid Battery
PS HD – Heavy Duty Series

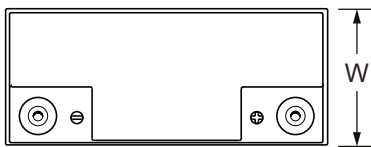
TERMINALS: (mm)

T12: Threaded insert with
5mm stud fastener



Torque: 2.0~3.0 Nxm

DIMENSIONS: inch (mm)



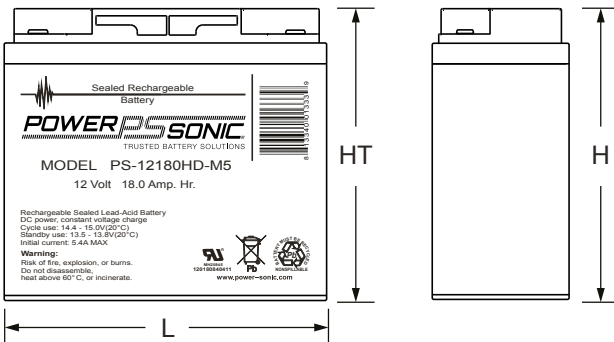
L: 7.14 (181)

W: 3.03 (77)

H: 6.59 (167)

HT: 6.59 (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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FEATURES

- Heavy duty (HD) construction with high vibration tolerance
- Punch-plate design yielding ultra-low impedance
- Absorbent Glass Mat (AGM) technology for superior performance
- High-rate discharge characteristics matching 'pure lead' products
- Valve regulated, maintenance free spill proof construction
- Rugged impact resistant ABS case and cover

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

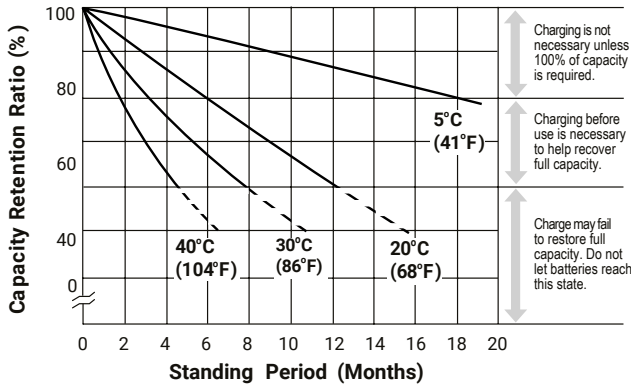
PERFORMANCE SPECIFICATIONS

Nominal Voltage	12 volts (6 cells)
Rated Capacity	
20-hr. (900mA to 10.80 volts)	18.0 AH
10-hr. (1.7A to 10.80 volts)	16.7 AH
5-hr. (3.0A to 10.50 volts)	15.1 AH
1-hr. (11.1A to 9.60 volts)	11.1 AH
15-min. (31.9A to 9.60 volts)	8.0 AH
Approximate Weight	13.38 lbs. (6.07 kg)
Internal Resistance (approx.)	8.0 milliohms
Max Discharge Current (5 min.)	57.9 amperes
Max Short-Duration Discharge Current (5 Sec.)	270.0 amperes
Shelf Life (% of nominal capacity at 68°F (20°C))	
1 Month	97%
3 Month	91%
6 Month	83%
Operating Temperature Range	
Charge	5°F (-15°C) to 122°F (50°C)
Discharge	-4°F (-20°C) to 140°F (60°C)
Case	ABS Plastic
Recommended Power Sonic Chargers	PSC-122000A-C PSC-124000A-C PSC-122000-PC PSC-124000-PC PSC-243500-PC

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Rechargeable Sealed Lead Acid Battery
PS HD – Heavy Duty Series

SHELF LIFE & STORAGE



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

- Fire and security
- Medical
- Wind
- Emergency Lighting
- Solar

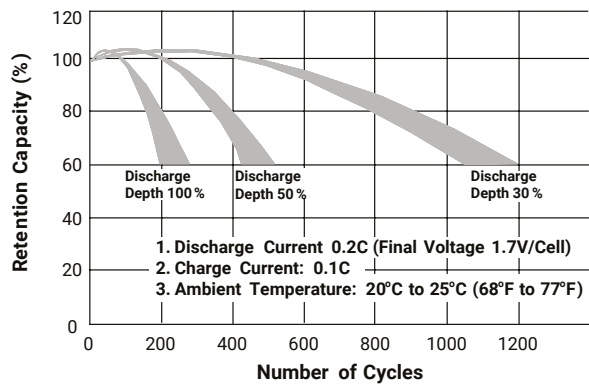
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LIFE CHARACTERISTICS IN CYCLIC USE



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.

