

## DCG12-20 12 Volt 20 AH

Rechargeable Sealed Lead Acid Battery  
Power-Gel Series™



We've Got The Power.™



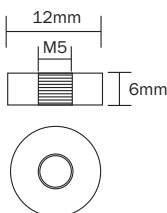
### Features

- Thixotropic gel electrolyte for enhanced performance
- Valve regulated, spill proof construction allows safe operation in any position
- Superior capabilities
- Power/volume ratio yielding unrivaled energy density
- Rugged ABS plastic (UL94-HB) case and cover
- Approved for transport by air. D.O.T., I.A.T.A., F.A.A. and C.A.B. certified
- U.L. recognized - MH 20845
- CE compliant

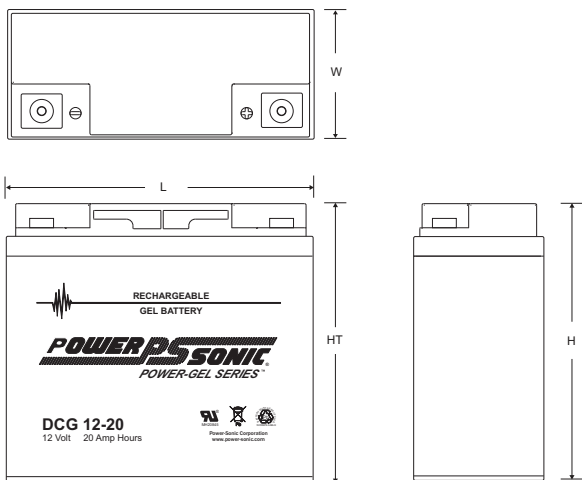
### Terminals

(mm)

- T12: Threaded insert w. 8 mm stud fastener



### Physical Dimensions: in(mm)



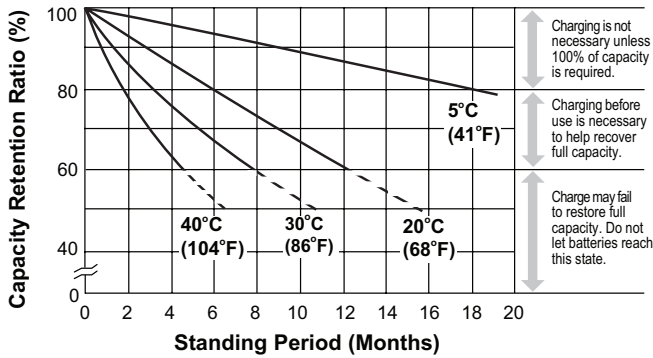
L: 7.16 (182) W: 3.00 (76) H: 6.59 (167) HT: 6.59 (167)

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

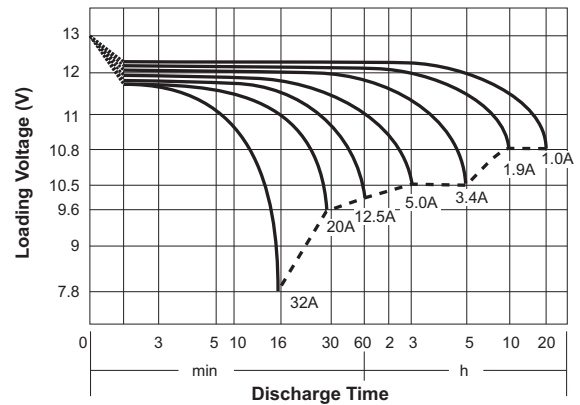
### Performance Specifications

Nominal Voltage.....	12 volts (6 cells)
Nominal Capacity	
20-hr. (1.0A to 10.5 volts) .....	20.0 AH
10-hr. (1.90A to 10.5 volts) .....	19.0 AH
5-hr. (3.40A to 10.5 volts) .....	17.0 AH
3-hr. (5.00A to 10.5 volts) .....	15.0 AH
1-hr. (12.5A to 9.0 volts) .....	12.5 AH
Approximate Weight .....	13.4 lbs. (6.1 kg)
Energy Density (20-hr. rate) .....	1.70 W-h/in <sup>3</sup> (103.46 W-h/l)
Specific Energy (20-hr. rate) .....	17.91 W-h/lb (39.49 W-h/kg)
Internal Resistance (approx.) .....	10.0 milliohms
Shelf Life (% of nominal capacity at 68°F (20°C))	
1 Month .....	0.97
3 Months.....	0.91
6 Months .....	0.83
Operating Temperature Range	
Charge ..	-4°F (-20°C) to 122°F (50°C)
Discharge.....	-40°F (-40°C) to 140°F (60°C)
Case .....	ABS Plastic (UL94 HB)
Recommended Power-Sonic Chargers .....	n/a

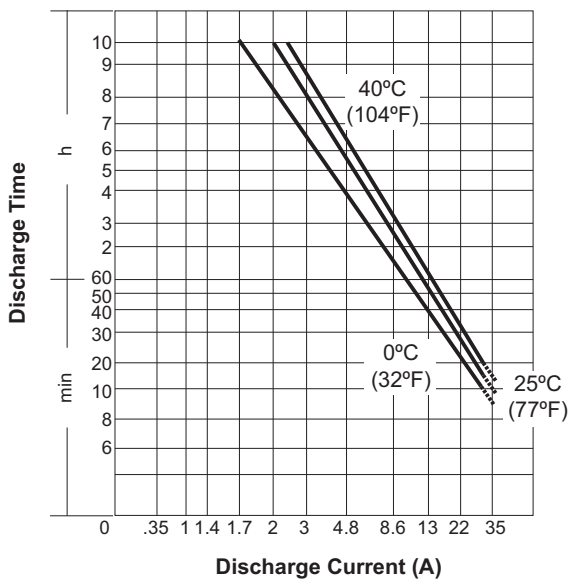
**Shelf Life & Storage**



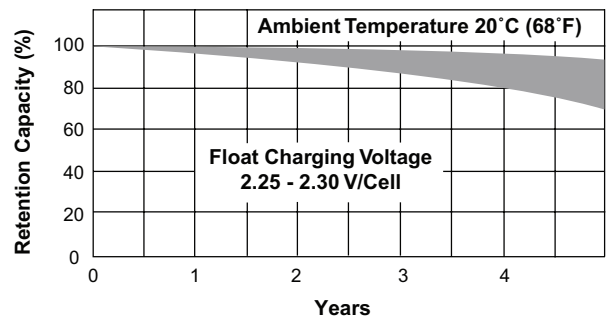
**Discharge Characteristics**



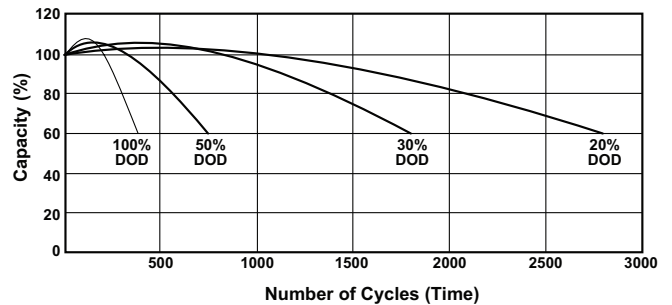
**Discharge Time vs. Discharge Current**



**Life Characteristics in Stand-By Use**



**Life Characteristics in Cyclic Use**



**Charging**

**Cycle Applications:** Limit initial current to 6A. Charge until battery voltage (under charge) reaches 13.90 to 14.20 volts at 68°F (20°C). Hold at 13.90 to 14.20 volts until current drops to under 200mA. Battery is fully charged under these conditions, and charger should be disconnected or switched to "float" voltage.

**"Float" or "Stand-By" Service:** Hold battery across constant voltage source of 13.50 to 13.80 volts continuously. When held at this voltage, the battery will seek its own current level and maintain itself in a fully charged condition.

**Note:** Due to the self-discharge characteristics, it is imperative that they be charged within 6 months of storage, otherwise permanent loss of capacity might occur as a result of sulfation.

**Chargers**

Power-Sonic offers a wide range of chargers suitable for batteries up to 100AH. Please refer to the Charger Selection Guide in our specification sheets for "C-Series Switch Mode Chargers" and "Transformer Type A and F Series". Please contact our Technical department for advice if you have difficulty in locating suitable models.

**Further Information**

Please refer to our website [www.power-sonic.com](http://www.power-sonic.com) for a complete range of useful downloads, such as product catalogs, material safety data sheets (MSDS), ISO certification, etc..

**Contact Information**

[www.power-sonic.com](http://www.power-sonic.com)

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