

**DCG12-200 12 Volt 200 AH @ 20-hr. rate**  
**186 AH @ 10-hr. rate**

**Rechargeable Sealed Lead Acid Battery**  
**Power-Gel Series™**



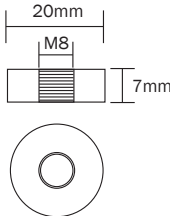
## Features

- 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

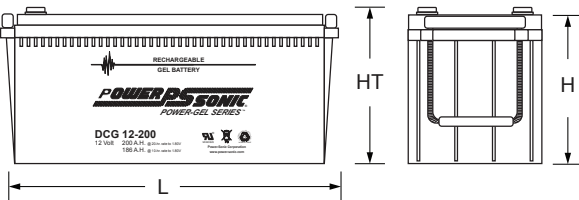
## Terminals

(mm)

- T11: Threaded insert w. 8 mm stud fastener



## Physical Dimensions: in(mm)



**L: 20.55 (522) W: 9.45 (240) H: 8.58 (218) HT: 8.81 (224)**

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. (10.0A to 10.8 volts) ..... | 200.0 AH |
| 10-hr. (18.6A to 10.5 volts) ..... | 186.0 AH |
| 5-hr. (32.0A to 10.5 volts) .....  | 160.0 AH |
| 3-hr. (49.0A to 10.5 volts) .....  | 147.0 AH |
| 1-hr. (110A to 10.0 volts) .....   | 110.0 AH |

Approximate Weight ..... 137.8 lbs. (62.5 kg)

Energy Density (20-hr. rate) ..... 1.44 W-h/in<sup>3</sup> (87.90 W-h/l)

Specific Energy (20-hr. rate) ..... 17.42 W-h/lb (38.40 W-h/kg)

Internal Resistance (approx.) ..... 3.4 milliohms

Shelf Life (% of nominal capacity at 68°F (20°C))

|                |     |
|----------------|-----|
| 1 Month .....  | 97% |
| 3 Months.....  | 91% |
| 6 Months ..... | 83% |

Operating Temperature Range

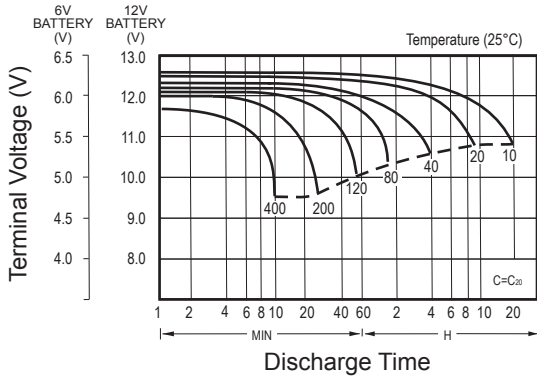
Charge.. ..... -4°F (-20°C) to 122°F (50°C)

Discharge..... -40°F (-40°C) to 140°F (60°C)

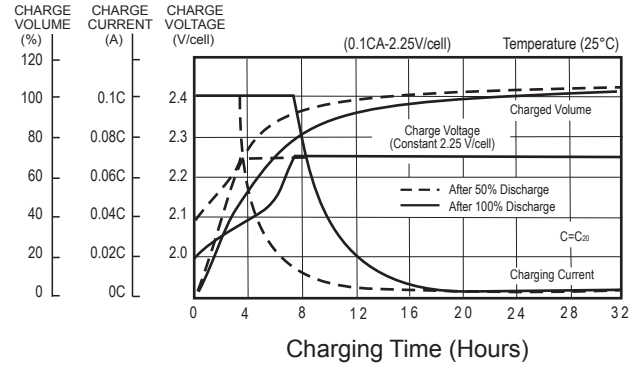
Case ..... ABS Plastic (UL94 HB)

Recommended Power-Sonic Chargers ..... n/a

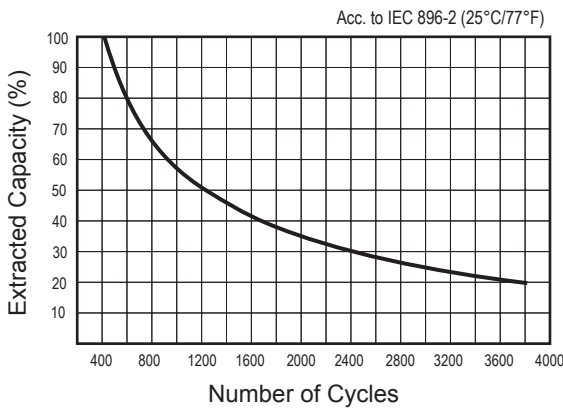
**Discharge Characteristics**



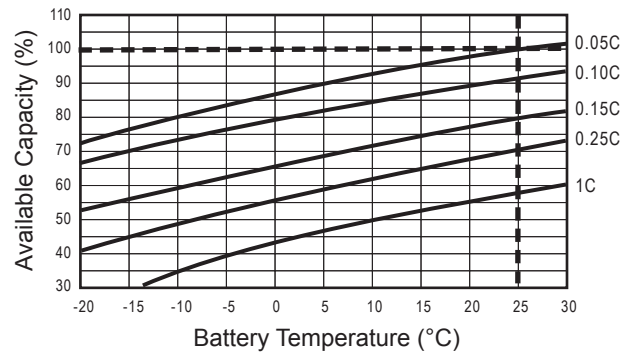
**Float Charging Characteristics**



**Cycle Life in Relation to Depth of Discharge**



**Temperature Effects in Relation to Battery Capacity**



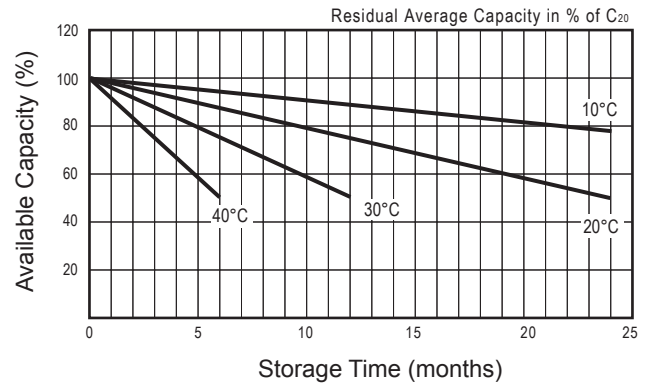
**Charging**

**Cycle Applications:** Limit initial current to 60A. 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 1.0A. 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.

**General Relation of Capacity vs. Storage Time**



**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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