

DCG12-38 12 Volt 38.0 AH @ 20-hr. rate
35.3 AH @ 10-hr. rate

Rechargeable Sealed Lead Acid Battery
Power-Gel Series™



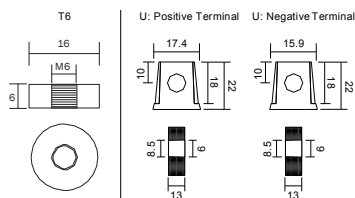
Features

- 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

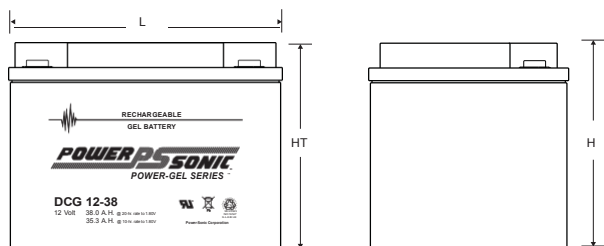
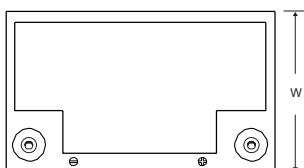
Terminals

(mm)

- T6: Threaded insert w. 6 mm stud fastener
- U: Universal terminals: Heavy-duty posts with 'nut & bolt' fasteners



Physical Dimensions: in(mm)



L: 7.76(197) W: 6.50(165) H: 6.69(170) HT: 6.69(170)

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

Performance Specifications

Nominal Voltage..... 12 volts (6 cells)

Nominal Capacity

20-hr.	(1.90A to 10.8 volts)	38.0 AH
10-hr.	(3.53A to 10.5 volts)	35.3 AH
5-hr.	(6.08A to 10.5 volts)	30.4 AH
3-hr.	(8.22A to 10.5 volts)	26.5 AH
1-hr.	(20.9A to 9.0 volts)	20.9 AH

Approximate Weight 29.1 lbs. (13.2 kg)

Energy Density (20-hr. rate) 1.35 W-h/in³ (82.46 W-h/l)

Specific Energy (20-hr. rate) 15.67 W-h/lb (34.55 W-h/kg)

Internal Resistance (approx.) 12.0 milliohms

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

1 Month	97%
3 Months	91%
6 Months	83%

Operating Temperature Range

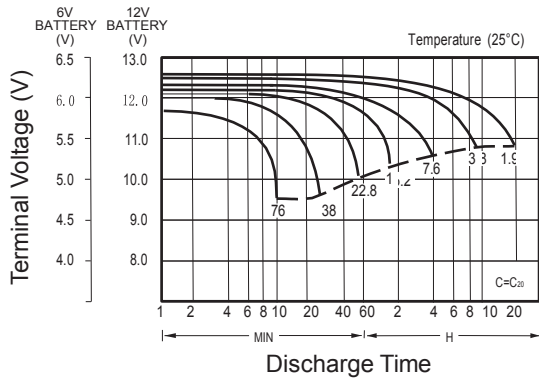
Charge.. -4°F (-20°C) to 122°F (50°C)

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

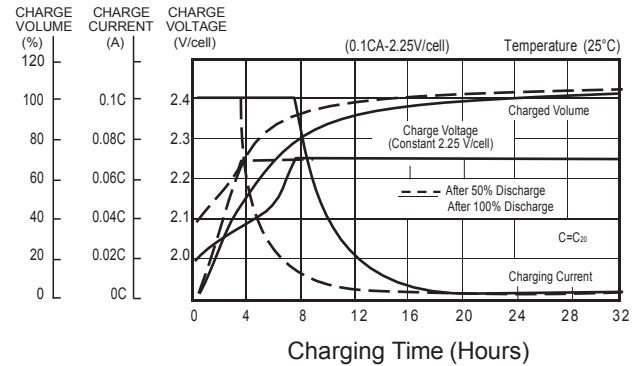
Case ABS Plastic (UL94 HB)

Recommended Power-Sonic Chargers n/a

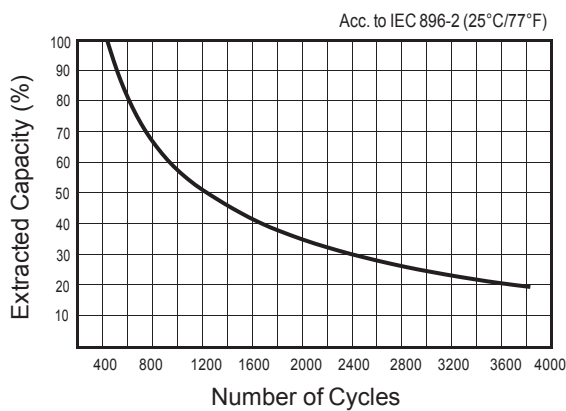
Discharge Characteristics



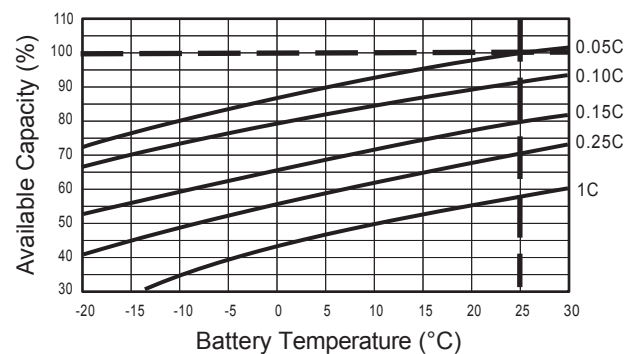
Float Charging Characteristics



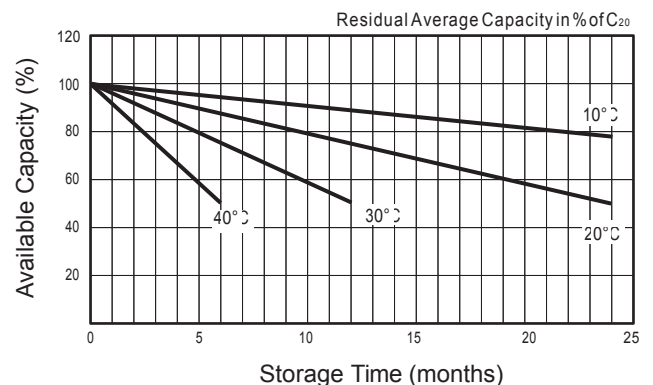
Cycle Life in Relation to Depth of Discharge



Temperature Effects in Relation to Battery Capacity



General Relation of Capacity vs. Storage Time



Charging

Cycle Applications: Limit initial current to less than 9.5A. Charge until battery voltage (under charge) reaches 14.40 to 15.00 volts at 77 °F (25 °C).

“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 for a complete range of useful downloads, such as product catalogs, material safety data sheets (MSDS), ISO certification, etc..