



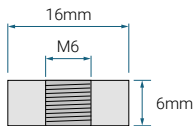
DCG12-50

12V 50.0 AH @ 20-hr.
12V 46.5 AH @ 10-hr.

Rechargeable Sealed Lead Acid Battery
DCG – Deep Cycle Gel Series

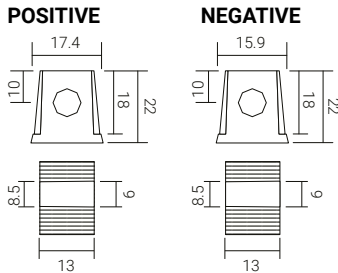
TERMINALS: (mm)

T6: Threaded insert with 6mm stud fastener



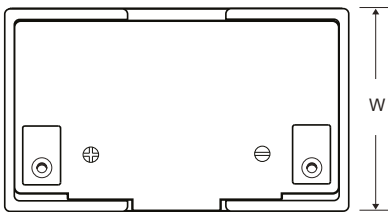
Torque: 3.9~5.4 Nxm

U: Universal terminals: Heavy-duty posts with 'nut & bolt' fasteners



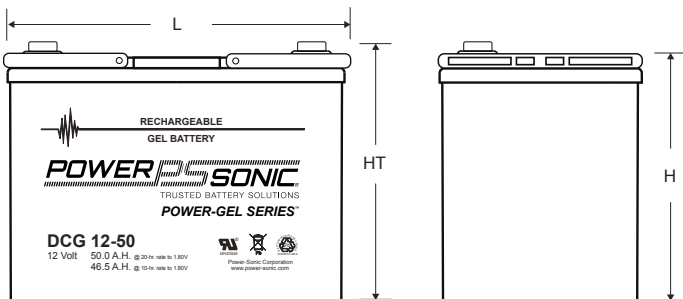
Torque: 11.0~14.7 Nxm

DIMENSIONS: inch (mm)



L: 9.02 (229)
W: 5.45 (138)
H: 8.07 (205)
HT: 8.31 (211)

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



CORPORATE HEADQUARTERS (USA AND INTERNATIONAL EXCLUDING EMEA)

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FEATURES

- Thixotropic gel electrolyte for enhanced performance
- Valve regulated, maintenance free spill proof construction
- Specifically engineered for cyclic applications
- Power/volume ratio yielding excellent energy density
- Gas recombination technology
- Rugged vibration and impact resistant ABS case and cover (UL94-HB) Also available 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

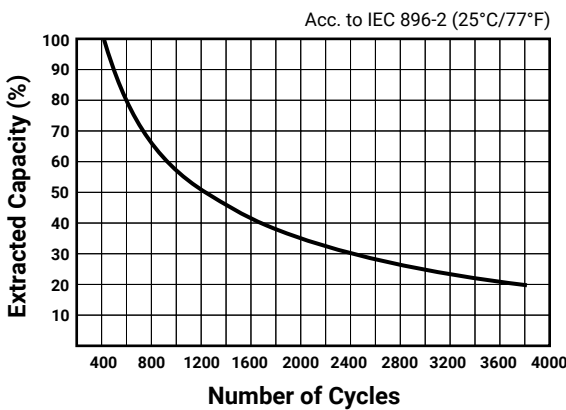
PERFORMANCE SPECIFICATIONS

Nominal Voltage	12 volts (6 cells)	
Nominal Capacity		
20-hr. (2.50A to 10.80 volts)		50.0 AH
10-hr. (4.65A to 10.50 volts)		46.5 AH
5-hr. (8.00A to 10.50 volts)		40.0 AH
3-hr. (12.30A to 10.50 volts)		36.9 AH
1-hr. (27.50A to 10.00 volts)		27.5 AH
Approximate Weight	36.8 lbs. (16.7 kg)	
Internal Resistance (approx.)	9.0 milliohms	
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-1210000-PC	

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CYCLE LIFE IN RELATION TO DEPTH OF DISCHARGE



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

A whole range of CYCLIC applications including but not limited to:

- Solar
- Wind
- Mobility
- Golf Carts

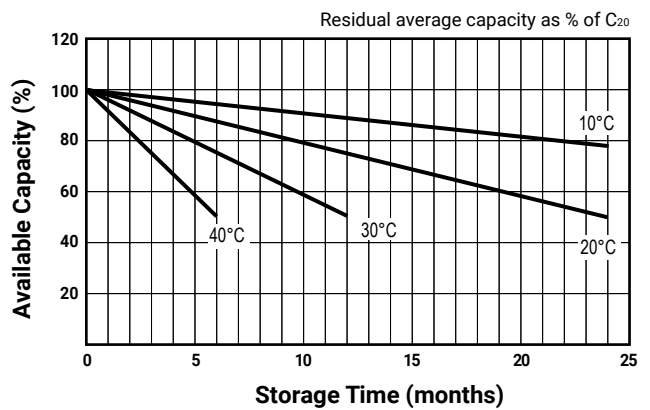
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GENERAL RELATION OF CAPACITY VS. STORAGE TIME



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.

