



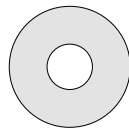
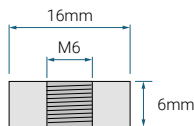
## DCG12-45

TBCV TBC AH @ 20-hr.  
TBCV TBC AH @ 10-hr.

Rechargeable Sealed Lead Acid Battery  
DCG – Deep Cycle Gel Series

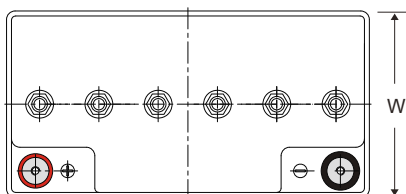
### TERMINALS: (mm)

**T6:** Threaded insert with 6mm stud fastener



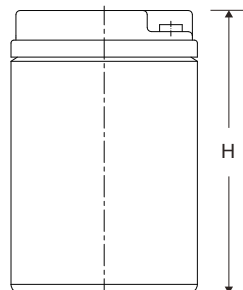
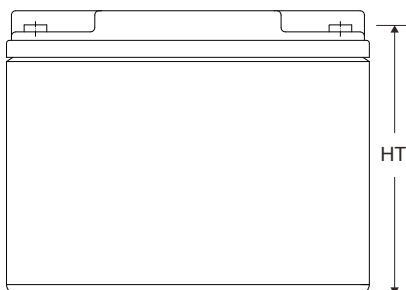
Torque: 3.9~5.4 Nxm

### DIMENSIONS: inch (mm)



**L:** 10.11 (257)  
**W:** 5.19 (132)  
**H:** 7.87 (200)  
**HT:** 7.48 (190)

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



### 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

<b>Nominal Voltage</b>	12 volts (6 cells)	
<b>Nominal Capacity</b>		
20-hr. (2.25A to 10.80 volts)	45.0 AH	
10-hr. (4.00A to 10.50 volts)	40.0 AH	
5-hr. (7.20A to 10.50 volts)	36.0 AH	
3-hr. (10.40A to 10.50 volts)	31.2 AH	
1-hr. (24.80A to 10.00 volts)	24.8 AH	
<b>Approximate Weight</b>	35.7 lbs. (16.2 kg)	
<b>Internal Resistance (approx.)</b>	11.3 milliohms	
<b>Shelf Life</b> (% of nominal capacity at 68°F (20°C))		
1 Month	97%	
3 Month	91%	
6 Month	83%	
<b>Operating Temperature Range</b>		
Charge	5°F (-15°C) to 122°F (50°C)	
Discharge	-4°F (-20°C) to 140°F (60°C)	
<b>Case</b>	ABS Plastic	
<b>Recommended Power Sonic Chargers</b>	PSC-124000-PC PSC-243500-PC PSC-1210000-PC	

#### CORPORATE HEADQUARTERS (USA AND INTERNATIONAL EXCLUDING EMEA)

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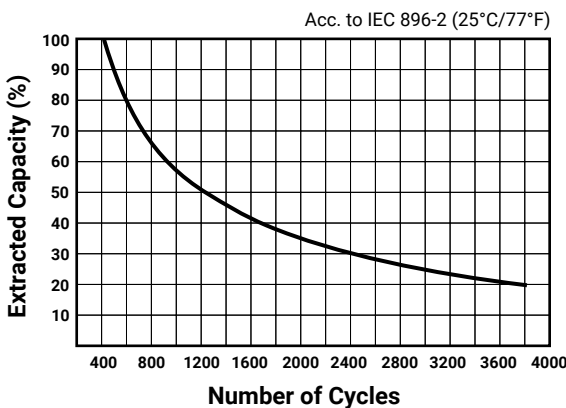
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**DCG12-45** XXV XX AH @ 20-hr.  
XXV XX AH @ 10-hr.

Rechargeable Sealed Lead Acid Battery  
DCG – Deep Cycle Gel Series

**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

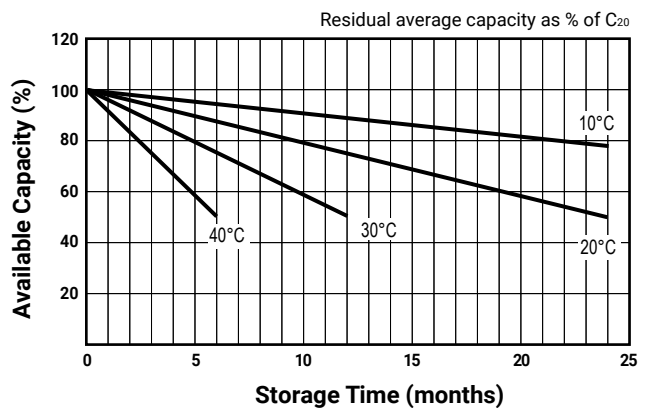
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**GENERAL RELATION OF CAPACITY VS. STORAGE TIME**



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

