DCG12-17 12V 17.0 AH @ 20-hr. 12V 15.8 AH @ 10-hr.

Rechargeable Sealed Lead Acid Battery
DCG – Deep Cycle Gel Series

TERMINALS: (mm)

T12: Threaded insert with 5mm stud fastener

L: 7.12 (181)  W: 3.03 (77)  H: 6.59 (167.5)  HT: 6.59 (167.5)
Tolerances are +/- 0.04 in. ( +/- 1mm) and +/- 0.08 in. ( +/- 2mm) for height dimensions. All data subject to change without notice.

Internal Resistance (approx.)  18.0 milliohms

Approximate Weight  12.8 lbs. (5.8 kg)

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

• U.L recognized
• ISO9001:2015 – Quality management systems

PERFORMANCE SPECIFICATIONS

Nominal Voltage  12 volts (6 cells)

Nominal Capacity
20-hr. (850mA to 10.50 volts)  17.00 AH
10-hr. (1.58A to 10.50 volts)  15.80 AH
5-hr. (2.72A to 10.50 volts)  13.60 AH
3-hr. (3.94A to 10.50 volts)  11.80 AH
1-hr. (9.35A to 9.00 volts)  9.35 AH

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-124000-PC  PSC-243500-PC

www.power-sonic.com

To ensure safe and efficient operation always refer to the latest edition of our Technical Manual, as published on our website.

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DCG SERIES

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DCG12-17

12V 17.0 AH @ 20-hr.
12V 15.8 AH @ 10-hr.

Rechargeable Sealed Lead Acid Battery
DCG – Deep Cycle Gel Series

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:
• Medical  • Solar  • Wind  • Mobility  • Golf Carts

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.

CYCLE LIFE IN RELATION TO DEPTH OF DISCHARGE

Acc. to IEC 896-2 (25°C/77°F)

Extracted Capacity (%) vs. Number of Cycles

GENERAL RELATION OF CAPACITY VS. STORAGE TIME

Residual average capacity as % of C20

Available Capacity (%) vs. Storage Time (months)

40°C 30°C 20°C 10°C

Cycle Life in Relation to Depth of Discharge

Number of Cycles

Extracted Capacity (%)

400 800 1200 1600 2000 2400 2800 3200 3600 4000

Acc. to IEC 896-2 (25°C/77°F)

Cycle Life in Relation to Depth of Discharge

Number of Cycles

Extracted Capacity (%)

400 800 1200 1600 2000 2400 2800 3200 3600 4000

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