

12-1018



DEEP CYCLE SERIES

DCS-100IT

Valve Regulated Lead Acid Battery
Designed for Cycling Applications



FEATURES & BENEFITS

APPLICATIONS

- Over The Road Trucks
- Cycling Applications
- Mobility Markets
- Deep Cycle Marine
- Medical
- Elevator

- Robust plate for extended cycle life.
- Computer generated grid design optimized for high power density.
- Low calcium grid alloy for reduced gas emissions and ease of recycling.
- Flame-arresting one-way pressure-relief vent for safety and long life.
- UL-recognized component.
- Multicell design for economy of installation and maintenance.
- Case and cover available in standard polypropylene.
- Thermally welded case-to-cover bond to eliminate leakage.
- Removable carrying handles.
- Can be used in any orientation. Upright, side, or end mounting recommended.
- Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance.
- Not restricted for air transport - Complies with IATA/ICAO Special Provision A67.
- Not restricted for surface transport - classified as non-hazardous material as related to DOT-CFR Title 49 parts 171-189.
- Low profile terminals with threaded copper alloy inserts for reduced height, reduced maintenance and increased safety.

TECHNICAL DATA

12 Volts - Ampere Hour Capacity to 1.75 Volts per Cell @ 77°F (25°C)														
Discharge in hrs.	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	10.00	12.00	20.00	24.00	72.00	100.00
DCS-100IT	49.2	61.5	70.0	76.0	80.6	84.0	86.8	89.0	92.0	94.2	100.0	101.3	104.0	106.0

SPECIFICATIONS

Model	Weight	Maximum Discharge Current	Short Circuit Current	Ohms Imped. 60 Hz (Ω)	Capacity
DCS-100IT	69 lbs. 31 kg	800 Amps	3600 Amps @ 0.1 sec.	0.0035 Ohms	81.0 Ah @ 5 hr. rate to 1.75 volts per cell at 77°F (25°C) 100 Ah @ 20 hr. rate to 1.75 volts per cell at 77°F (25°C) 84.7 Ah @ 10 hr. rate to 1.80 volts per cell at 68°F (20°C)

SPECIFICATIONS

Cells Per Unit	6
Voltage Per Unit	12
Operating Temperature Range (with temperature compensation)	Discharge: -40°F (-40°C) to +160°F (71°C) Charge: -10°F (-23°C) to +140°F (60°C)
Normal Operating Temperature Range	+74°F (23°C) to +80°F (27°C)
Recommended Maximum Charging Current Limit	C/5 amperes @ 20hr rate (5 Amps)
Float Charging Voltage	13.5 to 13.8 VDC/unit Average at 77°F (25°C)
Equalization and Cycle Service Charging and Current Limits	14.4 to 14.8 VDC/unit Average at 77°F (25°C)
Maximum AC Ripple (Charger)	0.5% RMS or 1.5% P-P of float charge voltage recommended for best results Maximum voltage allowed = 4% P-P Maximum current allowed = C/20 RMS (5 Amps)
Self Discharge	Up to 6 months at 77°F (25°C) and then a freshening charge is required. Batteries stored at temperatures at greater than +77°F (25°C) will require recharge sooner than batteries stored at temperatures less than 77°F (25°C). See C&D brochure 41-7272, Self Discharge and Inventory Control for details.
Accessories	Inter units connectors, racks and cabinet systems are available
Terminal	Threaded copper alloy insert terminal to accept 1/4-20 UNC bolt
Terminal Hardware Torque	110 in.-lbs (12.4 N-m)

DIMENSIONS

	Battery Termination					
	DCS-100IT					
	A	B	C	D	E	F
DCS-100IT	13.42 (340.9)	12.75 (323.7)	6.80 (172.7)	6.54 (166.0)	8.40 (213.2)	8.52 (216.4)

*All dimensions in inches and (millimeters). All dimensions are for reference only. Contact a C&D Representative for complete dimension information.
Note: Batteries to be mounted with 0.5 in. (1.15 cm) spacing minimum and free air ventilation.

DCS-100IT

Constant Current Discharge Ratings - Amperes @ 77°F (25°C)														
Operating Time to End Point Voltage (in hours)														
End Point Volts/Cell	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	10.00	12.00	20.00	24.00	72.00	100.00
1.90	38.50	23.50	17.70	14.40	12.20	10.60	9.40	8.44	7.05	6.08	4.00	3.40	1.23	0.91
1.85	42.00	26.50	19.70	16.00	13.60	11.80	10.45	9.38	7.86	6.80	4.48	3.80	1.35	0.99
1.80	45.40	28.40	21.50	17.50	14.90	13.00	11.50	10.33	8.64	7.44	4.78	4.04	1.42	1.03
1.75	49.20	30.80	23.30	19.00	16.12	14.00	12.40	11.13	9.20	7.85	5.00	4.22	1.44	1.06

Specifications subject to change without notification.

You may access the product ratings by logging onto the free **C&D Battery Sizing program** at www.cdstandbypower.net.

C&D TECHNOLOGIES, INC.

1400 Union Meeting Road
P.O. Box 3053 • Blue Bell, PA 19422-0858
(215) 619-2700 • Fax (215) 619-7899 • (800) 543-8630
customersvc@cdtechno.com
www.cdtechno.com

Any data, descriptions or specifications presented herein are subject to revision by C&D Technologies, Inc. without notice. While such information is believed to be accurate as indicated herein, C&D Technologies, Inc. makes no warranty and hereby disclaims all warranties, express or implied, with regard to the accuracy or completeness of such information. Further, because the product(s) featured herein may be used under conditions beyond its control, C&D Technologies, Inc. hereby disclaims all warranties, either express or implied, concerning the fitness or suitability of such product(s) for any particular use or in any specific application or arising from any course of dealing or usage of trade. The user is solely responsible for determining the suitability of the product(s) featured herein for user's intended purpose and in user's specific application.