

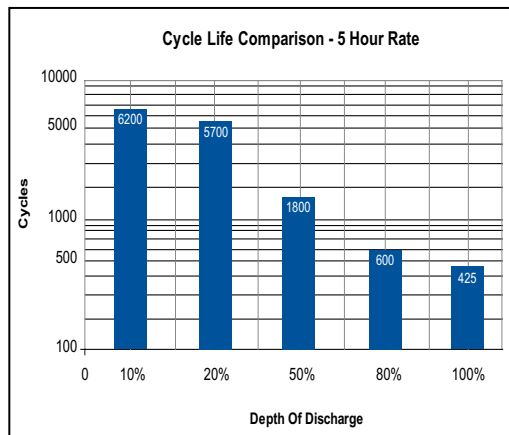


# DEEP CYCLE SERIES



## Valve Regulated Lead Acid Battery Designed for Deep Cycle Applications

### INDUSTRY LEADING CYCLE LIFE



### APPLICATIONS

- Transportation
- APU
- HVAC
- Liftgate
- Refrigeration
- Marine

### FEATURES & BENEFITS

- Robust plate design with DCS Technology 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
- Bi-Terminal design for installation flexibility
- Flame-arresting one-way pressure-relief vent for safety and long life
- UL-recognized component
- Multicell design for economy of installation and maintenance
- Rugged polypropylene case and cover
- 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
- Non-Hazardous, not restricted for any transportation mode (air, water or land)

### TECHNICAL DATA

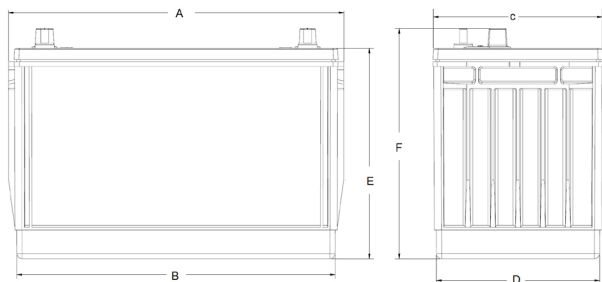
12 Volts - Ampere Hour Capacity to 1.75 Volts per Cell @ 77°F (25°C)														
Discharge in hours	1	2	3	4	5	6	7	8	10	12	20	24	72	100
<b>DCS-75BT</b>	43.5	53.2	58.5	62.0	64.5	66.6	68.6	69.6	71.0	72.0	75.0	75.6	77.6	78.0
<b>DCS-88BT</b>	47.0	58.0	66.0	70.8	74.0	76.2	78.0	79.2	81.7	83.6	88.0	88.8	93.0	95.0
<b>DCS-100BT</b>	49.2	61.5	70.0	76.0	80.6	84.0	86.8	89.0	92.0	94.2	100	101	104	106

# SPECIFICATIONS

Model	Weight	Maximum Discharge Current	Short Circuit Current	Ohms Imped. 60 Hz ( $\Omega$ )	Capacity
DCS-75BT	54 lbs 25 kg	600 Amps	3100 Amps @ 0.1 sec.	0.0045 Ohms	65 Ah @ 5 hr. rate to 1.75 volts per cell @77°F (25°C) 75 Ah @ 20 hr. rate to 1.75 volts per cell @77°F (25°C) 68 Ah @ 10 hr. rate to 1.80 volts per cell @68°F (20°C)
DCS-88BT	64 lbs 30 kg	800 Amps	3300 Amps @ 0.1 sec.	0.0045 Ohms	74 Ah @ 5 hr. rate to 1.75 volts per cell @77°F (25°C) 88 Ah @ 20 hr. rate to 1.75 volts per cell @77°F (25°C) 78 Ah @ 10 hr. rate to 1.80 volts per cell @68°F (20°C)
DCS-100BT	69 lbs 31 kg	800 Amps	3600 Amps @ 0.1 sec.	0.0035 Ohms	81 Ah @ 5 hr. rate to 1.75 volts per cell @77°F (25°C) 100 Ah @ 20 hr. rate to 1.75 volts per cell @77°F (25°C) 85 Ah @ 10 hr. rate to 1.80 volts per cell @68°F (20°C)

Cells Per Unit	6
Voltage Per Unit	12.84
Electrolyte	Absorbed H <sub>2</sub> SO <sub>4</sub> , SG = 1.300
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)
Nominal Operating Temperature Range	+68°F (+20°C) to +80°F (+27°C)
Recommended Maximum Charging Current Limit	C/5 amperes @ 20hr rate
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
Self Discharge	Battery can be stored up to 6 months at 77°F (25°C) before a freshening charge is required. Batteries stored at temperatures greater than 77°F (25°C) will require recharge sooner than batteries stored at lower temperatures. See C&D Technical Bulletin 41-7272, Self-Discharge and Inventory Control for details.
Accessories	Inter unit connectors, racks and cabinet systems are available
Terminal	Bi-terminal SAE Post / 5/16" stud

# DIMENSIONS



Battery Terminal		
DCS-75BT	DCS-85BT	DCS-100BT

	A	B	C	D	E	F
DCS-75BT	10.76 (273.2)	10.17 (258.4)	6.83 (168.9)	6.65 (168.9)	7.89 (200.3)	8.01 (203.5)
DCS-88BT	12.51 (317.8)	11.95 (303.5)	6.83 (173.4)	6.65 (168.9)	7.94 (201.6)	8.06 (204.8)
DCS-100BT	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.

## DCS-75BT

Constant Current Discharge Ratings - Amperes @ 77°F (25°C)														
Operating Time to End Point in 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	34.00	21.00	15.50	12.30	10.30	8.90	7.84	7.00	5.80	5.00	3.20	2.70	0.95	0.69
1.85	38.20	23.80	17.70	14.30	11.90	10.30	9.00	8.10	6.66	5.60	3.50	2.95	1.02	0.74
1.80	41.00	25.30	18.80	15.00	12.50	10.80	9.50	8.50	6.96	5.90	3.70	3.10	1.06	0.77
1.75	43.50	26.60	19.50	15.50	12.90	11.10	9.75	8.70	7.10	6.00	3.75	3.15	1.08	0.78

Note: Batteries to be mounted with 0.5 in. (12.5 mm) spacing minimum and free air ventilation. Specifications subject to change without notification.

## DCS-88BT

Constant Current Discharge Ratings - Amperes @ 77°F (25°C)														
Operating Time to End Point in 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	36.50	22.10	16.80	13.70	11.60	10.10	8.93	8.00	6.70	5.75	3.80	3.25	1.17	0.85
1.85	40.60	25.10	19.00	15.50	13.20	11.50	10.15	9.10	7.60	6.45	4.13	3.50	1.23	0.91
1.80	44.00	27.50	20.70	16.80	14.20	12.25	10.77	9.60	7.96	6.75	4.30	3.67	1.28	0.94
1.75	47.00	29.00	22.00	17.70	14.80	12.70	11.14	9.90	8.17	6.97	4.40	3.70	1.29	0.95

Note: Batteries to be mounted with 0.5 in. (12.5 mm) spacing minimum and free air ventilation. Specifications subject to change without notification.

## DCS-100BT

Constant Current Discharge Ratings - Amperes @ 77°F (25°C)														
Operating Time to End Point in 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	28.50	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	49.40	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

Note: Batteries to be mounted with 0.5 in. (12.5 mm) spacing minimum and free air ventilation. Specifications subject to change without notification.

## 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.

Copyright 2014 C&D TECHNOLOGIES, INC. Printed in U.S.A. 12-1126/0815/CD