



# DEEP CYCLE SERIES

## DCS-75IT VALVE REGULATED LEAD ACID BATTERY



**FOR DEEP CYCLE APPLICATIONS**

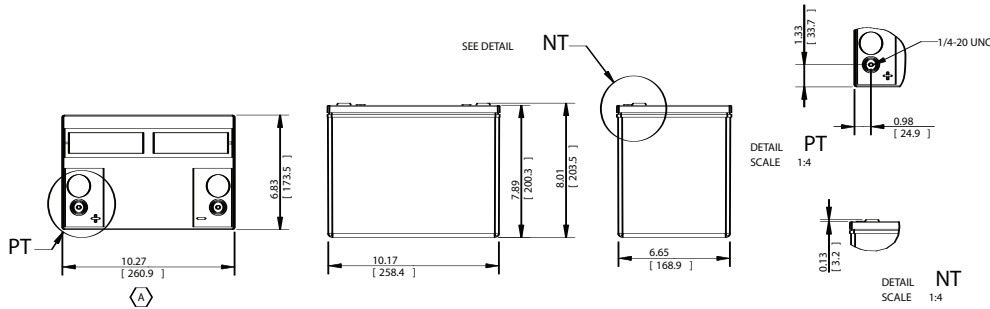
### FEATURES & BENEFITS

- 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.
- 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.
- Not restricted for water transport – classified as non-hazardous material per IMDG Amendment 27.
- Low-profile terminals with threaded copper alloy inserts for reduced height, reduced maintenance and increased safety.

### 12 VOLTS - 75 AMPERE HOUR CAPACITY @ 8 HOUR RATE

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
<b>Amp-Hr Capacity</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



\*All dimensions in inches and (millimeters). All dimensions are for reference only. Contact a C&D Representative for complete dimension information.

**SPECIFICATIONS**

Cells Per Unit	Voltage Per Unit	Weight	Electrolyte	Maximum Discharge Current	Short Circuit Current	Ohms Imped. 60Hz (Ω)
6	12.84	54 lbs. 25 kg.	Absorbed H2SO4 SG - 1.300	600 Amps	3100 Amps @ 0.1 sec.	0.0045 Ohms

<b>Capacity</b>	64.5 Ah @ 5 hr. rate to 1.75 volts per cell @ 77°F (25°C) 75.0 Ah @ 20 hr. rate to 1.75 volts per cell @ 77°F (25°C) 68.2 Ah @ 10 hr. rate to 1.80 volts per cell @ 20°C (68°F)
<b>Operating Temperature Range (with temperature compensation)</b>	Discharge; -40°F (-40°C) to +160 F (71°C) Charge; -10°F (-23°C) to +140 F (60°C)
<b>Nominal Operating Temperature Range</b>	+74°F (23°C) to + 80°F (27°C)
<b>Recommended Maximum Charging Current Limit</b>	C/5 amperes (15.0 amperes @ 100% depth of discharge) @ 20 hour rate
<b>Float Charging Voltage</b>	13.5 to 13.8 VDC/unit average @ 77°F (25°C)
<b>Equalization and Cycle Service Charging and Current Limits</b>	14.4 to 14.8 VDC per unit average @ 77°F (25°C) C/5 amperes (15.0 amperes @ 100% depth of discharge) @ 20 hour rate
<b>Maximum AC Ripple (Charger)</b>	0.5% RMS or 1.5% P-P of float charge voltage recommended for best results. Maximum AC ripple float charge voltage allowed = (4% P-P) Maximum AC ripple current allowed = 3.75 amperes RMS (C/20)
<b>Self Discharge</b>	Dynasty batteries may be stored for up to 6 months at 77 F (25°C) and then a freshening charge is required. For higher temperatures the time interval will be shorter.
<b>Accessories</b>	Inter unit connectors, racks and cabinet systems are available.
<b>Terminal</b>	Threaded copper alloy insert terminal to accept 1/4-20 UNC screws.
<b>Terminal Hardware Initial Torque</b>	110 in.-lbs. (12.4 N-m).

**CONSTANT CURRENT DISCHARGE RATINGS - AMPERES @77°F (25°C)**

Operating Time to End Point Voltage (in hours)

End Point Volts/Cells	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	34.0	21.0	15.5	12.3	10.30	8.90	7.84	7.00	5.80	5.00	3.20	2.70	0.95	0.69
1.85	38.2	23.8	17.7	14.3	11.90	10.30	9.00	8.10	6.66	5.60	3.50	2.95	1.02	0.74
1.80	41.0	25.3	18.8	15.0	12.50	10.80	9.50	8.50	6.96	5.90	3.70	3.10	1.06	0.77
1.75	43.5	26.6	19.5	15.5	12.90	11.10	9.80	8.70	7.10	6.00	3.75	3.15	1.08	0.78

**Note:** Batteries to be mounted with 0.5 in. (1.25 cm) spacing minimum and free air ventilation. Specifications subject to change without notification. Above ratings do not include interunit connector drops.