



DJ Lead-Calcium Battery

FOR SWITCHGEAR & CONTROL APPLICATIONS
CAPACITIES FROM 110 TO 200 AMPERE-HOURS



DJ SERIES BATTERY

Every cell
100%
capacity tested

C&D Technologies' flooded batteries are engineered to provide superior performance and reliability over the life of the product. These batteries are designed using proprietary techniques and quality components and materials for reduced maintenance and extended battery life.

APPLICATIONS

- Electric Utility Substations
- Manufacturing Facilities
 - Assembly Lines
 - Process Controls
 - Communication Systems
- Petrochemical Processing Plants
- Pipelines
- Emergency Systems

FEATURES & BENEFITS

RELIABILITY

- Time tested epoxy post seal and reliable tongue and groove jar-to-cover seal designs provide increased adhesive coverage area — offering unprecedented seal integrity during service
- Top suspended positive plate design allows free downward growth without pressure on jar, cover, or post seal — extending reliability and product life
- Recessed vent area to collect water and acid spills, keeping them away from posts and cover — lowering maintenance and clean-up costs
- Wrapped separator design extends cycle life — improving product reliability

SAFE OPERATION

- Self extinguishing features (LOI >32) of flame retardant (FR) cover and jar material — providing added protection
- Low evaporation, flame arrestor vents protect against external source from igniting hydrogen gas within the cells — improving safety

COST SAVINGS

- Unique jar design facilitates installation
- Compact, optimized product size nets up to 40% floor space reduction — saving valuable space
- Angled posts use standard lead-plated copper connectors and improved post to connector contact — lowering resistance and allowing for quicker installation

WARRANTY

- 3-year full, 17-year prorata

The new 20-year design life DJ batteries incorporate these benefits in a transparent container for visual inspection of plates and individual cell voltage taps on the connector covers for cell voltage readings.

SPECIFICATIONS

| | |
|---|--|
| Recommended float voltage range | 2.20–2.25 volts per cell (1.215 specific gravity) 2.22–2.27 volts per cell (1.250 specific gravity) |
| Specific gravity of electrolyte @77°F (25°C) | 1.215 (standard), 1.250 (option) |
| Cover material – Standard | High impact, PVC, LOI>32, UL94-V0 |
| Container material – Standard | Transparent, high-impact PVC, LOI>32, UL94-V0 |
| Separator material – Standard | U-wrapped, microporous with fibrous mat |
| Terminal type | Hardened lead post |
| Safety vent | Flame arrestor / low evaporation type |

C&D capacity tests every DJ battery to 100% of published rating which ensures 100% capacity out-of-the-box (no need to field cycle the batteries to reach rated capacity). This saves time and money for users.

SPECIFICATIONS

Nominal rates 1.215 specific gravity @ 77°F (25°C) (includes connector voltage drop) *

Amperes

| Models | FV/Cell | 1 min | 15 min | 30 min | 1 hr | 2 hr | 3 hr | 4 hr | 5 hr | 8 hr | 12 hr |
|--------|---------|-------|--------|--------|-------|------|------|------|------|------|-------|
| DJ-110 | 1.75 | 158.1 | 117.4 | 87.9 | 59.6 | 37.9 | 28.3 | 22.9 | 19.5 | 13.8 | 9.9 |
| | 1.78 | 139.3 | 105.0 | 80.1 | 55.5 | 35.9 | 27.0 | 22.1 | 18.8 | 13.3 | 9.7 |
| | 1.81 | 120.5 | 92.6 | 72.4 | 51.4 | 33.9 | 25.8 | 21.2 | 18.2 | 12.9 | 9.4 |
| | 1.85 | 94.9 | 78.2 | 62.4 | 44.8 | 30.6 | 23.9 | 19.8 | 17.0 | 12.1 | 8.8 |
| DJ-155 | 1.75 | 226.3 | 168.0 | 125.8 | 85.4 | 54.3 | 40.5 | 32.8 | 27.9 | 19.5 | 14.2 |
| | 1.78 | 199.5 | 150.3 | 114.7 | 79.5 | 51.4 | 38.7 | 31.6 | 26.9 | 19.0 | 13.8 |
| | 1.81 | 172.6 | 132.5 | 103.6 | 73.6 | 48.5 | 37.0 | 30.4 | 26.0 | 18.5 | 13.5 |
| | 1.85 | 135.9 | 112.0 | 89.4 | 64.2 | 43.8 | 34.2 | 28.4 | 24.4 | 17.3 | 12.6 |
| DJ-200 | 1.75 | 287.4 | 213.4 | 159.8 | 108.4 | 68.9 | 51.4 | 41.7 | 35.4 | 25.0 | 18.0 |
| | 1.78 | 253.3 | 190.8 | 145.7 | 100.9 | 65.3 | 49.2 | 40.2 | 34.2 | 24.1 | 17.6 |
| | 1.81 | 219.2 | 168.3 | 131.5 | 93.5 | 61.6 | 47.0 | 38.6 | 33.0 | 23.4 | 17.1 |
| | 1.85 | 172.6 | 142.2 | 113.5 | 81.5 | 55.6 | 43.5 | 36.1 | 31.0 | 22.0 | 15.9 |

Additional ratings and application information is available in the Battery Selection Program @ www.cdstandbypower.net

Note: Data based discharge from float at 77°F (25°C) in accordance with IEEE-450

SPECIFICATIONS

| Model | Part number* | Cells per unit | Plates per cell | L in (mm) | Dimensions W in (mm) | H in (mm) | Approx. wt. lbs (kg) | Electrolyte per cell gal (l) |
|---------|--------------|----------------|-----------------|--------------|----------------------|---------------|----------------------|------------------------------|
| 3DJ-110 | CW17784-PVC | 3 | 5 | 8.09 (205.5) | 13.58 (344.9) | 15.22 (386.6) | 101 (46) | 1.23 (4.66) |
| 3DJ-155 | CW17785-PVC | 3 | 7 | | | | 120 (54) | 1.09 (4.13) |
| 3DJ-200 | CW17786-PVC | 3 | 9 | | | | 139 (63) | 0.95 (3.60) |
| 2DJ-110 | CW17787-PVC | 2 | 5 | | | | 71 (32) | 1.23 (4.66) |
| 2DJ-155 | CW17788-PVC | 2 | 7 | | | | 83 (38) | 1.09 (4.13) |
| 2DJ-200 | CW17789-PVC | 2 | 9 | | | | 96 (44) | 0.95 (3.60) |

* For 1.250 specific gravity cells, add "C" suffix. (Example CW17784-PVCC.)

DJ RACK SELECTION MATRIX

| | Non-seismic racks | | | Seismic racks | | |
|-----------------|-------------------|---------------|--------------|----------------------------------|------------------------------------|------------------------------------|
| | 1 Tier, 1 Row | 2 Tier, 1 Row | 2 Step | 1 Tier, 1 Row | 2 Tier, 1 Row | 2 Step |
| 48 V (8 Jars) | RDB0800-06P | RDB0801-03P | RDB0803-03P | RDB0800-06EP1P RDB0800-06EP2P | RDB0801-03EP1P RDB0801-03EP2P | RDB0803-03EP1P RDB0803-03EP2P |
| 120 V (20 Jars) | RDB0800-15P | RDB0801-7.3P | RDB0803-7.3P | RDB0800-15EP1P RDB0800-15EP2P | RDB0801-7.3EP1P RDB0801-7.3EP2P | RDB0803-7.3EP1P RDB0803-7.3EP2P |

3 Tier, 1 Row racks are also available.