

12-315

## DJ LEAD-CALCIUM

For switchgear & control,  
telecommunications applications

Capacities from 100 to 200 Ampere-hours

C&D Technologies' Powercom Division 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.

### RELIABILITY

- Time tested epoxy post seal design and reliable Tongue & Groove jar-to-cover seal design with increased adhesive coverage area – providing 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 will collect water and acid spills and keep it away from posts and cover - lowering maintenance and clean-up costs

### SAFE OPERATION

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

### COST SAVINGS

- Built-in grab handle feature reduces the need for lifting equipment – allowing easier and faster installation
- Compact, optimized product size allows 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



The new 20-year design life low calcium-lead alloy DJ flooded 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	2.21 – 2.22 volts per cell (1.215 specific gravity) 2.25 – 2.26 volts per cell (1.250 specific gravity)
Specific gravity of electrolyte @ 77F (25C)	1.215 (standard), 1.250 (option)
Cover material	High impact, PVC, LOI>32, UL94-VO
Container material	Transparent, PVC, LOI>32, UL94-VO
Separator material	Microporous with fibrous mat
Terminal type	Hardened lead post
Safety vent	Flame arrestor / low evaporation type

C&D capacity tests every DJ battery to meet 100% of one hour published ratings (no need to field cycle the batteries to reach rated capacity). This saves time and money for users.

## SPECIFICATIONS PRELIMINARY (2/03)

**Nominal rates at 77F (25C) and 1.215 Specific Gravity  
(includes connector voltage drop)  
Amperes per cell**

Models	Final volts	1 Min	15 Min	30 Min	1 Hr	1.5 Hr	2 Hr	3 Hr	4 Hr	5 Hr	8Hr
DJ-100	1.75	152.4	98.9	77.9	56.7	43.0	35.4	26.8	22.2	19.0	13.8
	1.81	119.5	80.3	64.9	48.8	37.9	31.6	24.5	20.4	17.7	13.0
	1.84	102.0	72.1	58.7	44.1	34.8	29.2	22.7	19.0	16.6	12.4
	1.86	78.3	61.8	50.5	38.9	30.7	26.2	20.6	17.4	15.2	11.4
DJ-150	1.75	222.3	146.2	114.7	81.0	63.0	51.9	38.6	31.5	27.1	19.7
	1.81	173.6	118.8	95.9	69.8	55.5	46.3	35.3	29.3	25.3	18.5
	1.84	150.2	106.6	87.3	64.0	51.0	43.0	33.0	27.2	23.8	17.6
	1.88	115.7	91.4	75.1	56.0	45.0	38.0	30.0	24.8	21.7	16.3
DJ-200	1.75	302.4	201.6	158.6	108.0	81.8	66.6	50.5	41.2	35.0	25.0
	1.81	234.2	163.3	132.3	93.0	72.1	59.5	46.2	38.2	32.6	23.6
	1.84	198.5	148.1	119.7	85.0	66.2	54.9	42.8	35.5	30.7	22.4
	1.88	159.6	126.0	104.0	74.0	58.4	49.1	38.6	32.3	28.2	20.8

- DJ battery tested to meet 100% of one hour published ratings.
- Other rates conform to IEEE-450-1995.

Type of battery		Overall dimensions						Electrolyte per cell gal (liter)
Type of battery	Part number	Cells per unit	Plates per cell	L in (cm)	W in (cm)	H in (cm)	Approx. wt. lbs (kgs)	
3DJ-100	CW17488-PVC	3	5	7.95 (20.19)	13.47 (34.21)	14.67 (37.26)	102 (46)	1.2 (4.6)
3DJ-150	CW17489-PVC	3	7				121 (55)	1.1 (4.2)
3DJ-200	CW17490-PVC	3	9				140 (64)	1.0 (3.8)

- Length and Width are container dimensions. Height is to the top of the post.
- 2-cell versions also available.
- 1.215 Specific Gravity electrolyte weighs approximately 10 lbs per gallon (1.215 kgs per liter).

## DJ RACK SELECTION MATRIX

	1 Tier, 1 Row	2 Tier, 1 Row	2 Step
<b>24V (4 jars)</b>	RDB0800-03	Use 1T-1R rack	Use 1T-1R rack
<b>48V (8 jars)</b>	RDB0800-06	RDB0801-03	RDB0803-03
<b>120V (20 jars)</b>	RDB0800-15	RDB0801-07	RDB0803-07
<b>240V (40 jars)</b>	29ft total rack length*	RDB0801-15	RDB0803-15
<b>480V (80 jars)</b>	57ft total rack length*	28ft total rack length*	28ft total rack length*

- The rack part numbers shown are for non-seismic racks.
  - Add -EP1 or -EP2 suffix for seismic applications (ex. RDB0800-15EP1).
  - Add -P suffix for painted rails (ex. RDB0800-15P for painted non-seismic 15ft rack, RDB0800-15EP1P for painted seismic EP1 rack). The standard rails are galvanized.
  - 3 Tier, 1 Row racks are also available.
- \* The longest RDB8xx series rack is 16ft (4.88m). This configuration will take a combination of two or more racks.



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