

FLOODED



LEAD-CALCIUM BATTERY 4JC(C)-09HP

MARINE

GOLF

INDUSTRIAL

AUTO

SPECIAL
APPLICATIONS

SOLAR

DJ-HP SERIES

- Voltage: 8V
- Reserve Capacity: 183 Ah@8hr rate to 1.75VPC @ 77F (1.215 s.g.)
- Weight: 140 lbs (64 kg)
- Length: 10.2 in (261 mm)
- Width: 10.0 in (254 mm)
- Height: 14.6 in (371 mm)
- Plates per Cell: 9
- Electrolyte: Sulfuric acid, 1.215 s.g. standard, 1.250 s.g. optional
- Separator: U-wrapped, microporous with fibrous glass mat
- Container: Thermoplastic, transparent (SAN)
- Cover: High-impact, flame-retardant PVC (UL94-V0; ASTM D-635 self extinguishing)
- Recommended Float Voltage: 2.20-2.25 VPC (1.215 s.g.) / 2.22-2.27 VPC (1.250 s.g.)
- Terminals: Rectangular lead post, 2 per cell



FOR TELECOM, SWITCHGEAR & CONTROL AND UPS APPLICATIONS

The JC-High Performance (HP) battery offers a wide range of uses in Telecom and UPS. JC-HP flooded stationary batteries support projects in telecom, UPS, electric utility substations, manufacturing facilities, petrochemical processing plants, pipelines, emergency systems, railway signals, and more.

MODEL **4JC(C)-09HP**
 VOLTAGE **8V**
 CAPACITY **183Ah @ hrto 1.75VPC (1.215 s.g.)**
 CONTAINER **Thermoplastic, transparent (SAN)**
 COVER **High-impact, flame-retardant PVC (UL94-V0; ASTM D-635)**
 BATTERY TYPE **Lead-Calcium**

8V

PRODUCT + PHYSICAL SPECIFICATIONS

Serie	Model	Voltage	Cell(s)	Terminal Quantity	Dimensions ^c Inches (mm)			Weight Lbs. (kg)
					Length	Width	Height ^f	
DJ-HP	4JC(C)-09HP	8	4	2	10.2 (261)	10.0 (254)	14.6 (371)	140 (64)

ELECTRICAL SPECIFICATIONS

VPC	Ah @ 8hr Rate	NOMINAL RATE @ 77F (+25C) IN 1.215 SPECIFIC GRAVITY (INCLUDES CONNECTION DROP)									
		AMPERES									
		1 MIN	5 MIN	15 MIN	30 MIN	1 HR	2 HR	3 HR	4 HR	8 HR	12 HR
1.75	183	359.4	325.7	240.5	165.7	108.9	68.6	51	40.8	22.9	16
1.78	183	317.8	291.5	225.5	160.2	106.1	67.1	50	40.1	22.7	15.8
1.80	183	287.4	266.7	214.3	156.2	103.7	65.7	49	39.4	22.3	15.6
1.81	183	271	253.8	208.9	154.2	102.2	64.8	48.5	39	22.2	15.6

MODEL **4JC(C)-09HP**
 VOLTAGE **8V**
 CAPACITY **212Ah @ hrto 1.75VPC (1.250 s.g.)**
 CONTAINER **Thermoplastic, transparent (SAN)**
 COVER **High-impact, flame-retardant PVC (UL94-V0; ASTM D-635)**
 BATTERY TYPE **Lead-Calcium**

8V

ELECTRICAL SPECIFICATIONS

VPC	Ah @ 8hr Rate	NOMINAL RATE @ 77F (+25C) IN 1.250 SPECIFIC GRAVITY (INCLUDES CONNECTION DROP)									
		AMPERES									
		1 MIN	5 MIN	15 MIN	30 MIN	1 HR	2 HR	3 HR	4 HR	8 HR	12 HR
1.75	212	464.4	388.4	241.9	171.2	117.8	76.7	57.8	46.6	26.5	18.6
1.78	212	408.6	350.7	229.7	163	112.5	73.7	55.8	45.1	25.9	18.2
1.80	212	372	324	221.1	157.9	109.3	71.8	54.5	44.2	25.4	17.9
1.81	212	353.8	310.4	216.7	155.4	107.7	70.9	53.9	43.7	25.2	17.8

MODEL **4JC(C)-09HP**
 VOLTAGE **8V**
 CAPACITY **183Ah @ hrto 1.75VPC (1.215 s.g.)**
 CONTAINER **Thermoplastic, transparent (SAN)**
 COVER **High-impact, flame-retardant PVC (UL94-V0; ASTM D-635)**
 BATTERY TYPE **Lead-Calcium**

8V

ELECTRICAL SPECIFICATIONS KWH PER CELL

VPC	Ah @ 8hr Rate	NOMINAL RATE @ 77F (+25C) IN 1.215 SPECIFIC GRAVITY									
		AMPERES									
		1 MIN	2 MIN	3 MIN	4 MIN	5 MIN	10 MIN	15 MIN	20 MIN	30 MIN	1 HR
1.65	183	0.839	0.789	0.745	0.706	0.671	0.544	0.462	0.404	0.326	0.211
1.67	183	0.798	0.76	0.725	0.692	0.661	0.54	0.459	0.401	0.323	0.21
1.70	183	0.736	0.71	0.685	0.66	0.635	0.529	0.45	0.393	0.317	0.208
1.75	183	0.617	0.604	0.59	0.576	0.562	0.492	0.427	0.374	0.302	0.201

VPC	Ah @ 8hr Rate	NOMINAL RATE @ 77F (+25C) IN 1.250 SPECIFIC GRAVITY									
		AMPERES									
		1 MIN	2 MIN	3 MIN	4 MIN	5 MIN	10 MIN	15 MIN	20 MIN	30 MIN	1 HR
1.65	212	0.878	0.832	0.789	0.75	0.714	0.576	0.486	0.424	0.341	0.222
1.67	212	0.834	0.798	0.763	0.73	0.698	0.57	0.482	0.42	0.338	0.219
1.70	212	0.773	0.747	0.721	0.695	0.67	0.558	0.474	0.413	0.332	0.216
1.75	212	0.648	0.634	0.62	0.605	0.591	0.517	0.449	0.393	0.317	0.211

CHARGING INSTRUCTIONS

Charger Voltage Settings (at 77°F/25°C)					
System Voltage	2V	8V	24V	48V	125V
Bulk / Equalize Charge	2.35	9.40	28.20	56.40	141.00
Float Charge	2.25	9.00	27.00	54.00	135.00
High Voltage Alarm	2.45	9.80	29.40	58.80	147.00
Low Voltage Alarm	1.75	7.00	21.00	42.00	105.00
Do not install or charge batteries in a sealed or non-ventilated compartment. Constant under or overcharging will damage the battery and shorten its life as with any battery.					

CHARGING TEMPERATURE COMPENSATION

Add	Subtract
0.005 volt per cell for every 1°C below 25°C 0.0028 volt per cell for every 1°F below 77°F	0.005 volt per cell for every 1°C above 25°C 0.0028 volt per cell for every 1°F above 77°F

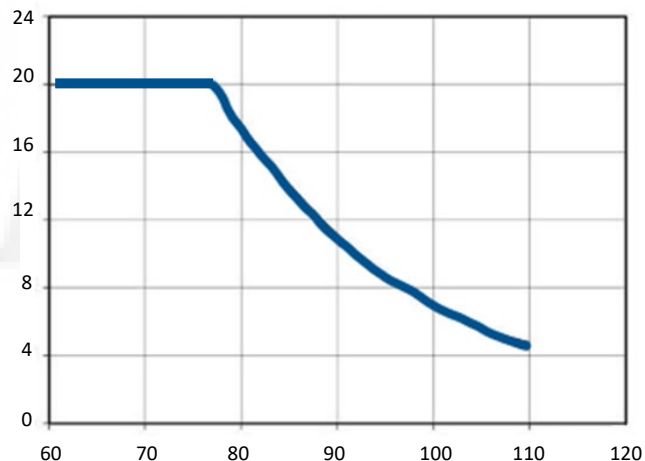
OPERATIONAL DATA

Operating Temperature	Self Discharge
Recommended operating temperature range 60F (15 C) – 90F (32 C) Limit Operating Range 32F (0 C) – 120F (49 C)	Less than 3% per month depending on storage temperature conditions

STATE OF CHARGE MEASURE OF OPEN-CIRCUIT VOLTAGE

Percentage Charge	Cell	Specific Gravity
100	2.06 - 2.08	1.210 - 1.220
75	2.03 - 2.04	1.185 - 1.195
50	2.00 - 2.01	1.160 - 1.170
25	1.97 - 1.98	1.135 - 1.145
0	1.95 or less	1.110 - 1.120

BATTERY LIFE v AMBIENT TEMPERATURE



FOR TELECOM, SWITCHGEAR & CONTROL, AND UPS APPLICATIONS

Capacities from 122 to 212 Ampere-hours

INDIVIDUAL POSTS IN A MULTI-CELL BATTERY

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.

RELIABILITY

- Reliable tongue and groove jar-to-cover seal design provides 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
- Wrapped separator design extends cycle life — improving product reliability
- Enhanced post seal design allows growth without transmitting forces to cover

SAFE OPERATION

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

COST SAVINGS

- Multi-cell design offers better space utilization and faster installation
- Transparent container allows visual inspection of plates
- C&D capacity tests every JC-HP battery to 100% of 1 hr published rating which ensures 100% capacity out-of-the-box at this rate (no need to field cycle the batteries to reach rated capacity) saving time and money for users

EASY MAINTENANCE

- All posts and connectors reside above the jar cover
- Individual posts allow monitoring of individual cell performance in a multi-cell container
- Individual posts use standard lead-plated copper connectors decreasing connection resistance
- Optional terminal and connector cover available (P/N RD00907-“L”)