

# JC-HP Lead-Calcium Battery

## FOR TELECOM, SWITCHGEAR & CONTROL, AND UPS APPLICATIONS

Capacities from 122 to 212 Ampere-hours

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.

### FEATURES & BENEFITS

#### 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”)

### SPECIFICATIONS @ 77°F (25°C)

<b>ELECTROLYTE</b>	Sulfuric acid, 1.215 s.g. standard, 1.250 s.g. optional
<b>RECOMMENDED FLOAT VOLTAGES</b>	2.20 - 2.25 vpc for 1.215 s.g. and 2.22 - 2.27 vpc for 1.250 s.g.
<b>CONTAINER</b>	Thermoplastic, transparent, (SAN)
<b>COVER</b>	High impact, flame-retardant PVC with tongue-and-groove seal Flammability ratings: UL94-V0; ASTM D-635 self extinguishing
<b>SEPARATOR</b>	U-wrapped, microporous with fibrous glass mat
<b>SAFETY VENT SYSTEMS</b>	Flame-arrestor/low-evaporation type
<b>TERMINALS</b>	Rectangular lead post: 2 per cell

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**TECHNOLOGIES**

**FLOODED**

**12-1163**



### APPLICATIONS

- Telecom
- UPS
- Electric Utility Substations
- Manufacturing Facilities
  - + Assembly Lines
  - + Process Controls
  - + Communication Systems
- Petrochemical Processing Plants
- Pipelines
- Emergency Systems
- Railway Signals

## SPECIFICATIONS

MODEL NAME	CELL PER UNIT	PLATES PER CELL	NOMINAL AH CAPACITY*		DIMENSIONS INCHES (mm)			WEIGHT LBS. (kg)	ELECTROLYTE PER CELL GAL (L)
			1.1215 SG	1.250 SG	LENGTH	WIDTH	HEIGHT		
4JC(C)-05HP	FOUR CELLS CONNECTED IN SERIES FOR EIGHT-VOLT UNITS	5	122	129	10.2 (261)	10.0 (254)	14.6 (371)	104 (47)	0.70 (2.65)
4JC(C)-07HP		7	168	177				120 (54)	0.57 (2.16)
4JC(C)-09HP		9	183	212				140 (64)	0.43 (1.63)

**NOTE:** Electrolyte weighs approximately 10 lbs per gallon (1.215 kgs per liter). \*8 hour capacity to 1.75vpc @ 77°F (for S.G. of 1.215) For information on battery racks, please refer to brochure 12-560.

## RATINGS TABLE: AMPERES 1.215 SPECIFIC GRAVITY

MODEL NAME	FV/CELL	1 MIN	5 MIN	15 MIN	30 MIN	1 HR	2 HR	3 HR	4 HR	8 HR	12 HR
<b>NOMINAL RATES @ 77°F (25°C) 1.215 SPECIFIC GRAVITY</b>											
4JC-05HP	1.75	227.3	186.0	114.8	81.9	56.6	38.5	29.8	24.7	15.3	11.3
	1.78	197.4	163.9	107.8	78.6	55.2	37.8	29.3	24.4	15.2	11.3
	1.80	176.7	151.8	104.0	76.3	54.0	37.1	29.0	24.2	14.9	11.0
	1.81	168.1	145.3	102.1	75.1	53.3	36.9	28.8	24.0	15.0	11.1
4JC-07HP	1.75	301.7	262.4	186.5	131.3	86.5	55.5	42.6	35.0	21.0	15.2
	1.78	265.6	237.7	176.4	125.6	83.7	55.0	42.1	34.5	20.7	15.0
	1.80	239.8	216.7	161.7	116.7	80.6	53.9	41.5	34.2	20.6	14.9
	1.81	225.3	205.7	154.7	112.1	79.0	53.2	41.1	33.9	20.4	14.8
4JC-09HP	1.75	359.4	325.7	240.5	165.7	108.9	68.6	51.0	40.8	22.9	16.0
	1.78	317.8	291.5	225.5	160.2	106.1	67.1	50.0	40.1	22.7	15.8
	1.80	287.4	266.7	214.3	156.2	103.7	65.7	49.0	39.4	22.3	15.6
	1.81	271.0	253.8	208.9	154.2	102.2	64.8	48.5	39.0	22.2	15.6

Additional ratings and application information are available in the Battery Selection Program found at [www.cdstandbypower.net](http://www.cdstandbypower.net)

## RATINGS TABLE: AMPERES 1.250 SPECIFIC GRAVITY

MODEL NAME	FV/CELL	1 MIN	5 MIN	15 MIN	30 MIN	1 HR	2 HR	3 HR	4 HR	8 HR	12 HR
<b>NOMINAL RATES @ 77°F (25°C) 1.250 SPECIFIC GRAVITY</b>											
4JCC-05HP	1.75	237.5	195.2	120.5	86.0	58.9	40.4	31.3	25.9	16.1	11.9
	1.78	207.3	172.1	113.2	82.5	57.7	39.7	30.8	25.6	15.9	11.8
	1.80	185.6	159.4	109.3	80.1	57.0	38.9	30.5	25.4	15.7	11.5
	1.81	176.5	152.7	107.1	78.9	55.9	38.8	30.3	25.2	15.7	11.6
4JCC-07HP	1.75	316.8	275.5	195.8	137.9	90.9	58.3	44.7	36.8	22.1	16.0
	1.78	278.9	249.6	185.2	131.9	88.0	57.7	44.2	36.3	21.8	15.8
	1.80	251.9	227.6	169.8	122.6	84.7	56.5	43.6	35.9	21.6	15.6
	1.81	236.5	216.0	162.4	117.7	83.1	55.8	43.2	35.6	21.5	15.5
4JCC-09HP	1.75	464.4	388.4	241.9	171.2	117.8	76.7	57.8	46.6	26.5	18.6
	1.78	408.6	350.7	229.7	163.0	112.5	73.7	55.8	45.1	25.9	18.2
	1.80	372.0	324.0	221.1	157.9	109.3	71.8	54.5	44.2	25.4	17.9
	1.81	353.8	310.4	216.7	155.4	107.7	70.9	53.9	43.7	25.2	17.8

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## RATINGS TABLE: KILOWATTS PER CELL 1.215 SPECIFIC GRAVITY

MODEL NAME	FV/CELL	1 MIN	2 MIN	3 MIN	4 MIN	5 MIN	10 MIN	15 MIN	20 MIN	30 MIN	1 HR
<b>NOMINAL RATES @ 77°F (25°C) 1.215 SPECIFIC GRAVITY</b>											
4JC-05HP	1.65	0.515	0.485	0.453	0.419	0.386	0.278	0.228	0.198	0.161	0.108
	1.67	0.490	0.463	0.433	0.403	0.373	0.274	0.226	0.196	0.159	0.107
	1.70	0.454	0.432	0.409	0.385	0.361	0.270	0.222	0.193	0.157	0.107
	1.75	0.390	0.375	0.358	0.341	0.323	0.245	0.204	0.179	0.148	0.105
4JC-07HP	1.65	0.704	0.668	0.631	0.595	0.561	0.433	0.359	0.311	0.250	0.165
	1.67	0.673	0.640	0.608	0.576	0.546	0.428	0.356	0.308	0.248	0.164
	1.70	0.620	0.595	0.570	0.545	0.521	0.418	0.350	0.303	0.245	0.162
	1.75	0.517	0.507	0.496	0.485	0.473	0.405	0.333	0.283	0.226	0.157
4JC-09HP	1.65	0.839	0.789	0.745	0.706	0.671	0.544	0.462	0.404	0.326	0.211
	1.67	0.798	0.760	0.725	0.692	0.661	0.540	0.459	0.401	0.323	0.210
	1.70	0.736	0.710	0.685	0.660	0.635	0.529	0.450	0.393	0.317	0.208
	1.75	0.617	0.604	0.590	0.576	0.562	0.492	0.427	0.374	0.302	0.201

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## RATINGS TABLE: KILOWATTS PER CELL 1.250 SPECIFIC GRAVITY

MODEL NAME	FV/CELL	1 MIN	2 MIN	3 MIN	4 MIN	5 MIN	10 MIN	15 MIN	20 MIN	30 MIN	1 HR
<b>NOMINAL RATES @ 77°F (25°C) 1.250 SPECIFIC GRAVITY</b>											
4JCC-05HP	1.65	0.541	0.508	0.471	0.434	0.398	0.289	0.239	0.207	0.169	0.114
	1.67	0.515	0.479	0.442	0.406	0.376	0.282	0.235	0.205	0.167	0.112
	1.70	0.477	0.448	0.418	0.389	0.362	0.273	0.228	0.200	0.164	0.112
	1.75	0.409	0.393	0.376	0.358	0.339	0.258	0.214	0.188	0.156	0.110
4JCC-07HP	1.65	0.739	0.701	0.662	0.625	0.589	0.455	0.377	0.326	0.263	0.173
	1.67	0.706	0.674	0.641	0.609	0.577	0.448	0.370	0.320	0.258	0.171
	1.70	0.651	0.626	0.601	0.576	0.551	0.440	0.365	0.316	0.254	0.169
	1.75	0.543	0.533	0.521	0.510	0.497	0.425	0.350	0.297	0.238	0.165
4JCC-09HP	1.65	0.878	0.832	0.789	0.750	0.714	0.576	0.486	0.424	0.341	0.222
	1.67	0.834	0.798	0.763	0.730	0.698	0.570	0.482	0.420	0.338	0.219
	1.70	0.773	0.747	0.721	0.695	0.670	0.558	0.474	0.413	0.332	0.216
	1.75	0.648	0.634	0.620	0.605	0.591	0.517	0.449	0.393	0.317	0.211

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