

DJ-HP Lead-Calcium Battery



FOR TELECOM, SWITCHGEAR & CONTROL, AND UPS APPLICATIONS

Capacities from 130 to 269 Ampere-hours

FLOODED

12-1162

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.

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
- 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
- Enhanced post seal design allows growth without transmitting forces to cover

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 an external source igniting hydrogen gas within the cells — improving safety

COST SAVINGS

- Unique jar design facilitates faster and safer installation
- Compact, optimized product size nets up to 40% floor space reduction — saving valuable space
- C&D capacity tests every DJ-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”)



APPLICATIONS

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

SPECIFICATIONS @ 77°F (25°C)

ELECTROLYTE	Sulfuric acid, 1.215 s.g. standard, 1.250 s.g. optional
RECOMMENDED FLOAT VOLTAGES	2.20 - 2.25 vpc for 1.215 s.g. and 2.22 - 2.27 vpc for 1.250 s.g.
CONTAINER	Transparent, high-impact PVC, LOI>32, UL94-V0
COVER	High impact, flame-retardant PVC with tongue-and-groove seal Flammability ratings: UL94-V0; ASTM D-635 self extinguishing
SEPARATOR	U-wrapped, microporous with fibrous glass mat
SAFETY VENT SYSTEMS	Flame-arrestor/low-evaporation type
TERMINALS	Rectangular lead post: 2 per cell

SPECIFICATIONS

MODEL NAME	CELL PER UNIT	PLATES PER CELL	NOMINAL AH CAPACITY*		DIMENSIONS INCHES (mm)			WEIGHT LBS. (kg)	ELECTROLYTE PER CELL GAL (L)
			1.215 SG	1.250 SG	LENGTH	WIDTH	HEIGHT		
3DJ(C)-05HP	THREE CELLS CONNECTED IN SERIES FOR SIX-VOLT UNITS	5	130	136	8.1 (206)	13.6 (345)	15.2 (387)	90 (41)	0.98 (3.71)
3DJ(C)-07HP		7	175	184				102 (46)	0.85 (3.22)
3DJ(C)-09HP		9	211	222				113 (51)	0.74 (2.80)
3DJ(C)-11HP		11	235	269				133 (60)	0.63 (2.38)

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
NOMINAL RATES @ 77°F (25°C) 1.215 SPECIFIC GRAVITY											
3DJ-05HP	1.75	208.7	179.3	124.9	87.8	58.4	39.6	31.2	26.1	16.2	11.8
	1.78	181.4	161.0	116.8	83.2	56.8	38.2	30.1	25.2	15.7	11.6
	1.80	164.4	148.0	111.1	80.7	55.9	37.7	29.6	24.8	15.5	11.4
	1.81	155.8	141.6	108.3	79.5	55.4	37.3	29.4	24.6	15.4	11.4
3DJ-07HP	1.75	311.3	275.2	185.6	129.3	88.6	58.2	44.4	36.4	21.9	15.9
	1.78	276.0	247.6	174.1	122.1	84.2	56.6	43.9	36.2	21.7	15.7
	1.80	246.9	226.6	166.7	117.1	82.2	56.0	43.6	36.0	21.6	15.5
3DJ-09HP	1.75	400.4	348.6	243.1	167.0	107.8	69.4	53.5	44.0	26.4	19.0
	1.78	350.4	310.2	227.9	160.5	104.4	68.3	52.7	43.4	26.1	18.8
	1.80	314.8	287.0	215.0	151.8	102.2	67.3	52.0	42.8	25.7	18.6
	1.81	295.0	271.9	208.8	148.2	100.6	66.5	51.5	42.5	25.6	18.5
3DJ-11HP	1.75	461.7	409.9	298.9	208.4	134.8	82.3	62.2	50.6	29.4	20.8
	1.78	402.6	363.0	271.0	192.3	128.4	81.4	61.2	49.8	29.0	20.5
	1.80	361.5	330.3	250.3	178.1	121.3	79.2	60.2	48.8	28.2	20.0
	1.81	342.5	313.5	239.7	172.3	118.3	77.9	59.4	48.3	28.1	19.9

Additional ratings and application information are available in the Battery Selection Program found at 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
NOMINAL RATES @ 77°F (25°C) 1.250 SPECIFIC GRAVITY											
3DJC-05HP	1.75	217.4	188.1	131.2	92.1	61.3	41.6	32.8	27.4	17.0	12.4
	1.78	190.4	169.1	122.6	87.4	59.7	40.1	31.6	26.4	16.5	12.2
	1.80	172.7	155.5	116.7	84.8	58.7	39.6	31.1	26.0	16.3	12.0
	1.81	163.6	148.7	113.7	83.5	58.3	39.2	30.9	25.8	16.2	12.0
3DJC-07HP	1.75	327.9	289.2	194.8	135.8	92.4	61.1	46.6	38.2	23.0	16.7
	1.78	290.0	260.1	182.8	128.2	88.4	59.5	46.1	38.0	22.8	16.5
	1.80	259.4	238.1	175.2	123.0	86.4	58.8	45.7	37.8	22.6	16.3
3DJC-09HP	1.75	420.4	366.0	255.2	175.3	113.2	72.9	56.2	46.2	27.7	20.0
	1.78	367.9	325.7	239.3	168.5	109.6	71.8	55.4	45.6	27.4	19.8
	1.80	330.8	301.5	225.8	159.4	107.3	70.6	54.6	45.0	27.0	19.5
	1.81	309.8	285.5	219.2	155.6	105.6	69.8	54.1	44.6	26.9	19.4
3DJC-11HP	1.75	472.2	469.5	315.2	222.0	151.3	97.8	73.5	59.2	33.6	23.6
	1.78	414.0	424.5	300.5	211.1	144.0	93.7	70.9	57.3	32.9	23.2
	1.80	375.3	390.6	289.0	205.0	139.9	91.3	69.2	56.1	32.3	22.8
	1.81	356.3	373.8	283.3	202.2	137.9	90.1	68.4	55.5	32.1	22.7

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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
NOMINAL RATES @ 77°F (25°C) 1.215 SPECIFIC GRAVITY											
3DJ-05HP	1.65	0.475	0.454	0.432	0.410	0.388	0.388	0.300	0.246	0.169	0.111
	1.67	0.452	0.435	0.417	0.398	0.380	0.298	0.244	0.209	0.167	0.110
	1.70	0.416	0.402	0.389	0.374	0.360	0.288	0.236	0.203	0.163	0.109
	1.75	0.358	0.346	0.335	0.323	0.311	0.260	0.222	0.194	0.159	0.108
3DJ-07HP	1.65	0.725	0.689	0.651	0.612	0.573	0.573	0.429	0.354	0.249	0.168
	1.67	0.692	0.658	0.623	0.588	0.554	0.424	0.351	0.305	0.248	0.167
	1.70	0.632	0.605	0.578	0.551	0.525	0.417	0.349	0.304	0.246	0.165
	1.75	0.533	0.522	0.509	0.496	0.482	0.401	0.325	0.278	0.227	0.160
3DJ-09HP	1.65	0.938	0.889	0.839	0.789	0.742	0.742	0.564	0.462	0.316	0.206
	1.67	0.892	0.852	0.811	0.770	0.729	0.560	0.458	0.393	0.313	0.205
	1.70	0.815	0.782	0.750	0.717	0.685	0.546	0.452	0.389	0.310	0.202
	1.75	0.687	0.674	0.660	0.645	0.629	0.535	0.431	0.360	0.287	0.198
3DJ-11HP	1.65	1.088	1.035	0.985	0.939	0.896	0.896	0.724	0.607	0.412	0.255
	1.67	1.024	0.984	0.944	0.906	0.870	0.713	0.599	0.516	0.406	0.253
	1.70	0.944	0.913	0.883	0.853	0.824	0.692	0.588	0.509	0.402	0.251
	1.75	0.793	0.777	0.760	0.743	0.726	0.632	0.537	0.461	0.365	0.244

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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
NOMINAL RATES @ 77°F (25°C) 1.250 SPECIFIC GRAVITY											
3DJC-05HP	1.65	0.500	0.476	0.452	0.428	0.405	0.313	0.257	0.222	0.177	0.116
	1.67	0.476	0.454	0.432	0.411	0.390	0.306	0.253	0.219	0.176	0.115
	1.70	0.436	0.419	0.401	0.384	0.367	0.295	0.247	0.214	0.173	0.114
	1.75	0.376	0.364	0.351	0.339	0.327	0.273	0.233	0.204	0.167	0.113
3DJC-07HP	1.65	0.762	0.723	0.683	0.642	0.601	0.451	0.371	0.322	0.262	0.176
	1.67	0.725	0.694	0.661	0.626	0.590	0.445	0.365	0.316	0.257	0.175
	1.70	0.662	0.636	0.609	0.581	0.552	0.431	0.357	0.310	0.252	0.171
	1.75	0.560	0.548	0.535	0.520	0.505	0.418	0.339	0.291	0.238	0.168
3DJC-09HP	1.65	0.984	0.934	0.884	0.833	0.783	0.591	0.483	0.414	0.331	0.216
	1.67	0.936	0.892	0.848	0.803	0.759	0.581	0.476	0.409	0.327	0.214
	1.70	0.854	0.826	0.797	0.766	0.734	0.574	0.464	0.396	0.316	0.211
	1.75	0.721	0.706	0.690	0.674	0.656	0.552	0.445	0.375	0.301	0.209
3DJC-11HP	1.65	1.142	1.087	1.035	0.986	0.941	0.758	0.634	0.546	0.431	0.269
	1.67	1.074	1.033	0.993	0.954	0.916	0.749	0.627	0.539	0.425	0.267
	1.70	0.990	0.960	0.931	0.901	0.870	0.724	0.606	0.521	0.411	0.265
	1.75	0.832	0.816	0.798	0.780	0.762	0.663	0.564	0.484	0.384	0.256

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