

C&D TECHNOLOGIES
Power Solutions

12-317-S

C&D® FLOODED

SG&C

JC LEAD-CALCIUM

FOR SWITCHGEAR AND CONTROL APPLICATIONS

Capacities from 50 to 300 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.



APPLICATIONS

- **Electric Utility Distribution Substations**
- **Railway Signals**
- **Emergency Systems**
- **Manufacturing Facilities**
 - Assembly Lines
 - Process Controls
- **Petrochemical processing plants**
- **Pipelines**

FEATURES & BENEFITS

- 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.
- Electrical testing (capacity test) on every cell prior to shipping assures performance of every battery upon delivery.
- Suspended positive plates permit free growth without pressure on jar and cover.

SAFE OPERATION

- Standard flame-retardant covers enhance battery plant safety with self-extinguishing properties, LOI>32%, UL 94V-0.
- Snap-on, intercell connector covers provide insulation.
- Low-evaporation, flame-arrester vent to extend watering intervals and prevent external sparks from reacting with the hydrogen inside the cell.

COST SAVINGS

- Multi-cell design offers reduced optimum space utilization (shorter racks).
- Transparent container allows visual inspection of plates.

SPECIFICATIONS

Plates	Height	Width	Thickness
Positive	8.00 in (203 mm)	7.62 in (194 mm)	0.250 in (6.40 mm)
Negative	8.00 in (203 mm)	7.62 in (194 mm)	0.165 in (4.20 mm)
Outside Negative	8.00 in (203 mm)	7.62 in (194 mm)	0.120 in (3.10 mm)
Electrolyte height above plates	2.70 in (69 mm)		
Sediment space	0.81 in (20.6 mm)		
Electrolyte @ 77°F (25°C)	Sulfuric acid, 1.215 specific gravity nominal		
Recommended Float voltages	2.21 - 2.22 volts per cell		
Container	Thermoplastic, transparent, (SAN)		
Cover	High-impact, flame-retardant thermoplastic with tongue-and-groove seal. Flammability ratings: UL 94-V0; ASTM D-635 self-extinguishing		
Separator	Microporous with fibrous glass mat		
Safety Vent Systems	Flame-arrester/low-evaporation type with flip-top dust cover		
Terminals	Cast-lead alloy (chair type)		
Special Voltages	Modules with dummy cells are available.		
* Optional container	Transparent, flame-retardant polycarbonate. Flammability ratings: UL 94-HB; ASTM D-635 self-extinguishing		

RATINGS TABLE: AMPERES

FV/Cell	Model	Nominal Rates @ 77°F (25°C) and 1.215 Specific Gravity (includes connector voltage drop)										
		1 min	15 min	30 min	1 hr	2 hr	3 hr	4 hr	5 hr	6 hr	8 hr	12 hr
1.75	4JC-50	67	47	36	26	17	13	11	9	8	6	5
	4JC-100	134	94	72	51	34	26	22	18	16	13	9
	4JC-150	202	141	107	77	52	40	32	27	24	19	13
	2JC-200	269	188	143	102	69	53	43	37	32	25	18
	2JC-300	403	282	215	154	103	79	65	55	48	38	27
1.78	4JC-50	59	43	33	24	16	13	10	9	8	6	4
	4JC-100	119	87	67	48	33	25	21	18	15	12	9
	4JC-150	178	130	100	72	49	38	31	26	23	18	13
	2JC-200	237	173	134	96	65	50	41	35	31	24	17
	2JC-300	356	260	201	145	98	75	62	53	46	36	26
1.81	4JC-50	51	39	31	23	16	12	10	8	7	6	4
	4JC-100	102	78	62	45	31	24	20	17	15	12	8
	4JC-150	154	117	93	68	46	36	30	25	22	18	13
	2JC-200	205	157	124	91	62	48	40	34	29	23	17
	2JC-300	307	235	186	136	93	72	59	50	44	35	25
1.85	4JC-50	40	33	27	20	14	11	9	8	7	6	4
	4JC-100	81	66	54	41	28	22	18	16	14	11	8
	4JC-150	121	99	82	61	43	33	28	24	21	17	12
	2JC-200	161	132	109	82	57	44	37	31	28	22	16
	2JC-300	242	198	163	123	85	67	55	47	41	33	24

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

Models	Cells per unit	Plates per cell	Overall Dimensions			Approx. wt. lbs (kgs)		Electrolyte per cell lbs (kgs)
			L in (mm)	W in (mm)	H in (mm)	Net filled	Dom. Packed	
4JC-50	Four cells connected in series for eight-volt units.	3	10.28 (261)	10.0 (254)	14.6 (371)	78 (35.4)	84 (38.1)	8.2 (3.7)
4JC-100		5				94 (42.6)	100 (45.4)	7.1 (3.2)
4JC-150		7				110 (50)	116 (52.6)	6.0 (2.7)
2JC-200	Four cells connected in series/parallel for four-volt units.	2x5				94 (42.6)	100 (45.4)	7.1 (3.2)
2JC-300		2x7				110 (50)	116 (52.6)	6.0 (2.7)

Note: Electrolyte weighs approximately 10 lbs per gallon (1.215 kgs per liter). For information on battery racks, please refer to brochure 12-560.



Battery Services for Backup Power

- Battery Installation
- Capacity and Acceptance Testing
- Preventative Maintenance
- Recycling

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