TECHNOLOGIES

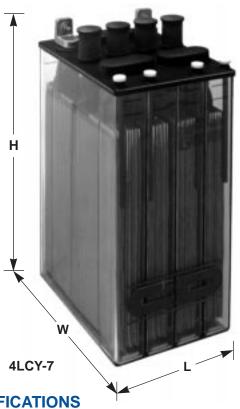
Solutions Power

4LCY LEAD-CALCIUM

For switchgear applications Capacities from 285 to 646 Ampere-hours







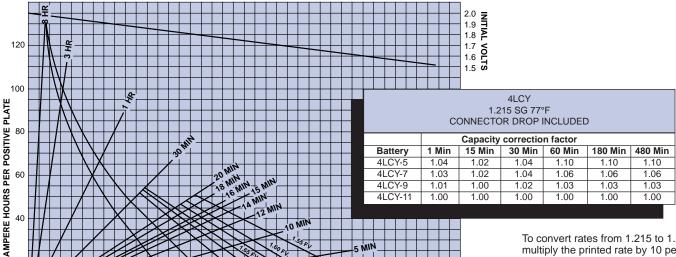
FEATURES AND BENEFITS

- · Vacuum-assisted, bottom-pour, positive grid casting assures plate quality and long life
- Four-cell design offers reduced length for optimum space utilization (shorter racks)
- Flame-retardant covers enhance battery plant safety
- Suspended positive plate permits free growth without pressure on jar and cover
- Snap-on, intercell-connector-insulating covers
- Terminals accessible for measurement of individual cell
- Transparent container allows visual inspection of plates
- Electrical testing to 100 percent capacity assures performance of every battery

SPECIFICATIONS

Plates	Height	Width	Thickness								
Positive	15 in (381 mm)	12 in (305 mm)	0.250 in (6.4 mm)								
Negative	15 in (381 mm)	12 in (305 mm)	0.180 in (4.6 mm)								
Outside negative	15 in (381 mm)	12 in (305 mm)	0.130 in (3.3 mm)								
Electrolyte height above plates	2.88 in (73 mm)										
Sediment space	0.63 in (16 mm)										
Electrolyte @ 77F (25C)	Sulfuric acid, 1.215 specific gravity nominal										
Float voltages	2.20–2.25 volts per cell										
Container†	Thermoplastic, transparent										
Cover	High-impact, flame-retardant thermoplastic (PVC) with tongue-and-groove seal										
	Flammability ratings: UL 94-V0; LOI>33; ASTM D-635 self-extinguishing										
Separator	Microporous with fibrous glass mat										
Safety vent system	Flame-arrester type with dust cover										
Terminals 4LCY-5 and 7	Two, 0.5 in (12.7 mm) x 1.38 in (35.1 mm) cast-lead terminals										
4LCY-9 and 11	Two, 1 in (25 mm) square posts per unit										
Withdrawal tubes	One per cell										
†Optional Container	Transparent, flame-retardant polycarbonate.										
	Flammability ratings: UL 94-HB; ASTM D-635 self-extinguishing										
Special voltages	Models with dummy ce	ells are available									

TYPICAL DISCHARGE CHARACTERISTICS OF 4LCY



To convert rates from 1.215 to 1.250, multiply the printed rate by 10 percent.

Data based on discharge from float at 77F (25C) for a minimum of 72 hours.

Type of	Cells per	Plates per	(Vpc@	ap. to 1.79 77F <mark>(250</mark> ector volt)*	Overall Dimensions			Approx. wt. lbs. (kgs)		Elec- trolyte per cell	
battery	unit	cell	Ampere-hours			Amperes			L	W H		Net	Dom.	lbs	
			8 Hr	3 Hr	1 Hr	30 Min	15 Min	1 Min	in (mm)	in (mm)	in (mm)	filled	packed	(kgs)	
4LCY-5	4	5	285	218	146	201	262	386	10.08	14.12 (359)		253	288	20	
4201-3	-	3	200	210	140	201	202		(256)			(114.8)	(121.6)	(9.1)	
4LCY-7	4	7	411	313	212	302	392	574	10.08			310	325	18	
4201-7	7	'	1	5	212	302	332		(256)		22.75 (578)	(140.6)	(147.4)	(8.2)	
4LCY-9	4	9	532	407	274	393	516	750	15.00			395	415	25	
4LC1-9	4	9	552	407	214	393	310		(381)			(179.2)	(188.2)	(11.3)	
41 CV 44	4	11	646	404	222	404	644	929	15.00			450	470	23	
4LCY-11	4	11	046	494	332	484	044	929	(381)			(204.1)	(213.2)	(10.4)	

280

320

360

Notes: Electrolyte weighs approximately 10 lbs per gallon (1.210 kgs per liter). *Data based on discharge from float at 77F (25C) for a minimum of 72 hours.

RACK SPECIFICATIONS

120

200

AMPERES PER POSITIVE PLATE

240

0

0

40

	TWO-STEP Model RDB-903-(L) Width: 44.8 in (1138 mm) Height: 52.3 in (1329 mm)						TWO-TIER Model RDB-901-(L) Width: 24.0 in (611 mm) Height: 65.8 in (1672 mm)					THREE-TIER Model RDB-902-(L) Width: 25.0 in (637 mm) Height: 94.8 in (2408 mm)				
	Len	gth (L)	Wei	ght	No.	Len	gth (L)	Weight		No.	Length (L)		Weight		No.	
Battery	ft	mm	lbs	kg	req'd	ft	mm	lbs	kgs	req'd.	ft	mm	lbs	kgs	req'd	
	60-CELL BATTERY															
4LCY-5 4LCY-7	7	2134	285	130	1	7	2134	280	127	1	5	1524	265	120	1	
4LCY-9 4LCY-11	11	3353	400	182	1	11	3353	380	173	1	7	2134	400	182	1	

Notes: 1. For more information on racks, see brochure 12-560.

- 2. Rack lengths for other than 60-cell batteries can be calculated by the formula: Number of cells per tier or step x (L+0.5)-0.5 = total rack length. (Where "L" is length of cell.) Where dimensions are critical, check with C&D engineering.
- 3. Rack width does not include thickness of crossbracing; increase width by 0.5 in. (12.7 mm) for crossbracing when this dimension is critical.
- 4. Height measured from base to top terminal of upper tier battery.

POWERCOM DIVISION

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