

FRONT ACCESS



**VALVE REGULATED
LEAD ACID BATTERY (V.R.L.A.)**



**ADVANCED ABSORBED GLASS
MAT TECHNOLOGY (A.G.M.)**



**LONG DURATION BATTERIES
DESIGNED FOR MAXIMUM LIFE**



10 VOLT CONFIGURATION AVAILABLE !

The **CSL series of batteries** are ideal for installations where real estate is at a premium. The front access design together with the connectors and terminal covers, permit rapid installation and reduced maintenance time.

Features

- Flame-retardant polypropylene case and cover compliant with UL94 V-0 with an Oxygen Limiting Index of greater than 28%.
- Gas recombination greater than 99%.
- Operates at a low internal pressure.
- Never needs watering, minimal maintenance.
- 99.7% pure lead, calcium alloy grids.
- Shock absorbent thick wall polypropylene cases.
- Cold forged non-porous terminal bushings, eliminate post leakage.
- Thermally welded case to cover bond, eliminates both acid and electrical leaks.
- Over-sized, through the partition inter-cell welds provide low resistance connections, with minimal power loss.
- Flame arresting, low pressure safety release venting system for individual cells, recognized per U.L. 924.
- Measured high vacuum acid fill, reduces electrical variability between cells.
- 100% recyclable materials.
- Terminal and bussbar covers

Options

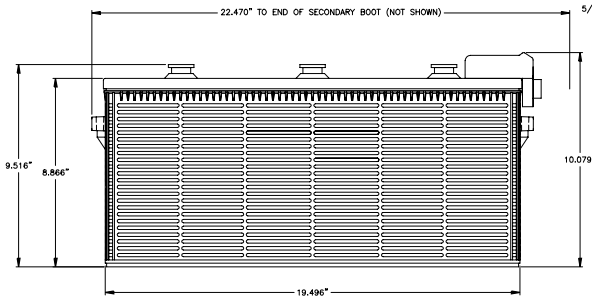
- Custom wire harnesses.

Specifications

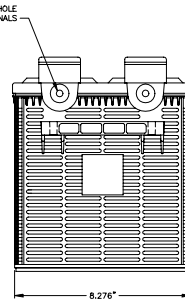
Cells per unit	6
Nominal voltage	12
Terminal type	Threaded copper insert, 5/16"
Short circuit current	7977 amps
Impedance @ 77°F 25°C	1.73 milliohms
Weight lbs / kgs	152 / 69.0
Electrolyte (S.G.)	1.300
Capacity @ 77°F (25°C)	170 AH (8 hrs) to 1.75 V.P.C.
Ideal operating temperature range	+68°F (+20°C) to +77°F (+25°C)
Extended operating temperature range	Discharge: -40°F (-40°C) to +140°F (+60°C) Charge: -4°F (-20°C) to +122°F (+50°C)
Float Voltage	13.5 to 13.8 @ 77°F (25°C)
Recommended maximum charging current	C/4 amperes at 100% discharge Unlimited at partial discharge.
AC ripple from charging source	1.5% peak to peak of float
Storage period without recharge	6 months at 77°F (25°C)

No transport restrictions

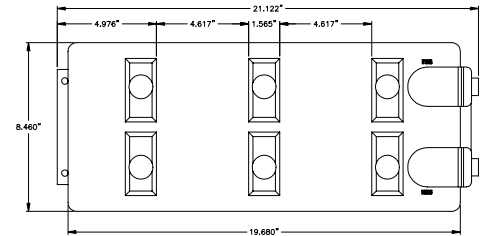
- Surface transport. Classified as non-hazardous material as relates to DOT-CFR Title 49 part 171-189.
- Maritime transport. Non hazardous as per IMDG amendment 27.
- Air transport. Non hazardous complies with IATA / ICAO, special provision A67.



FRONT VIEW



END VIEW



TOP VIEW

POWER BATTERY offers an extensive line of pre-wired and fused battery cabinets complete with UL and CUL approval. Standard and custom DC voltages complete with breakers and chargers are available.

Battery Cabinet Systems (pre-wired with CSL-12170 batteries)

Battery cabinet model	Maximum # of batteries	Dimensions					
		inches			millimeters		
		H	W	D	H	W	D
CZ3	12	50.3	42.0	31.5	1278	1067	800
CZ6	16	61.3	42.0	31.5	1557	1067	800
CZ4	20	72.3	42.0	31.5	1837	1067	800

Modular Stacking System

Model	Qty	H	W	D	H	W	D
EZ1	4	22.5	20.3	23.0	572	516	584

Open front modular stacking system. Can be stacked 4 high

Hours discharge rates in constant current (Amperes) and constant power (Watts) @ 77°F (25°C)

Volts per cell		1	2	3	4	5	6	7	8	9	10	12	24	48
1.75	Amps	117.5	68.1	48.8	38.4	31.8	27.2	23.9	21.3	19.1	17.4	14.8	7.60	3.92
	* Watts	1368	838	599	477	401	349	307	272	245	224	187	94.9	47.7
1.80	Amps	114.8	67.0	47.9	37.3	30.8	26.3	23.0	20.5	18.4	16.7	14.2	7.54	3.89
	* Watts	1340	801	577	460	382	328	287	256	228	207	175	92.1	47.5
1.85	Amps	109.6	64.0	45.7	35.8	29.6	25.4	22.1	19.7	17.7	16.1	13.7	7.25	3.77
	* Watts	1327	760	548	437	363	313	272	242	218	199	168	88.6	47.2
1.90	Amps	98.2	58.3	41.7	32.8	27.2	23.2	20.3	18.1	16.3	14.9	12.6	6.75	3.54
	* Watts	1313	687	488	390	330	285	254	229	207	190	162	85.4	44.4

* For 10 Volt models reduce the Watts by 18%

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