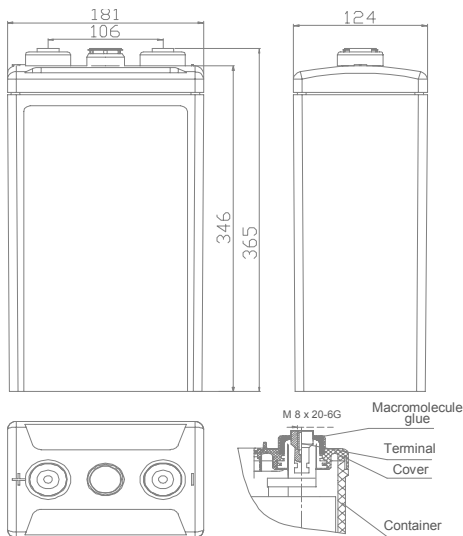




HIGH PERFORMANCE LC 2-300

VALVE REGULATED LEAD CARBON
2V FLAT PASTED PLATE
BATTERY



Innovative Features

- ◆ 20+ years design life;
- ◆ Unique super lead carbon technology, deep cycle battery design;
- ◆ Negative electrode with highly conductive carbon material, reduced sulfation of negative plate;
- ◆ Outstanding PSOC (partial state of charge) cycle performance;
- ◆ 5~8 times cycle life between 30 and 70 percent state-of-charge compared with normal VRLA, without fear of becoming sulfated;
- ◆ Excellent recharge acceptance performance, recharge fast after deep discharge;
- ◆ Excellent quick charge performance, reduce charging time by 30%~50%;
- ◆ Wide operating temperature range: -40°C to +80°C;
- ◆ Low self-discharge rate <3%/month;
- ◆ Complies with IEC60896, IEC61427 standards;

Performance Specifications

Normal Voltage	2V
Capacity	300Ah @ 10hr to 1.80V per cell @ 25°C (77°F)
Dimension	Length x Width x Height x Total Height: 124x181x346x365 (mm)
Weight	17.5kg (38.5lbs)
Internal Resistance	Approx. 0.49 mΩ
Short Circuit Current	2410A
Self Discharge @ 25°C (77°F)	No more than 3% after 30 days storage
Applicable Operating Temperature Range	-40°C~80°C (-40°F~176°F)
Ideal Operating Temperature Range	20°C~30°C (68°F~86°F)
Maximum Charge Current	60A
Charging Voltage @ 25°C (77°F)	Float: 2.25V, Temps coefficient -3 mV/°C Cycle: 2.35V, Temps coefficient -3 mV/°C
Contain Materials	ABS
Terminal Type	F-M8



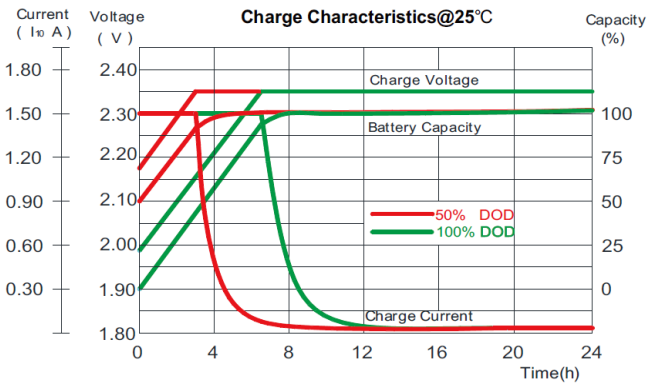
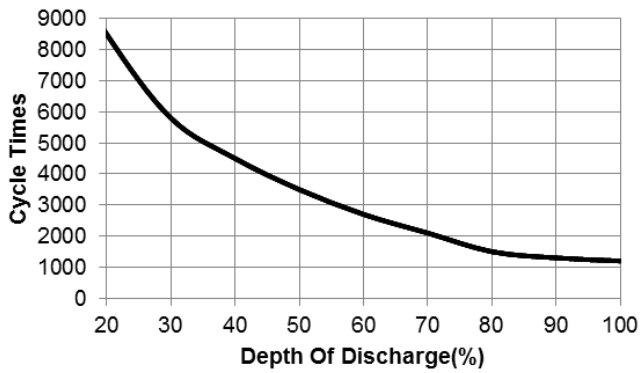
Constant Current Discharge Characteristics - Watts Per Cell @ 25°C (77°F)

Final VPC	Discharge Time In Minutes			Discharge Time In Hours								
	15	30	60	2	3	5	8	10	20	48	72	100
1.80	643	506	355	189	151	102	71.8	59.7	34.9	15.00	9.47	7.16
1.75	706	570	390	201	160	106	73.8	62.7	36.0	15.30	9.95	7.52
1.67	741	591	399	207	165	109	76.9	63.7	36.7	15.60	10.1	7.64

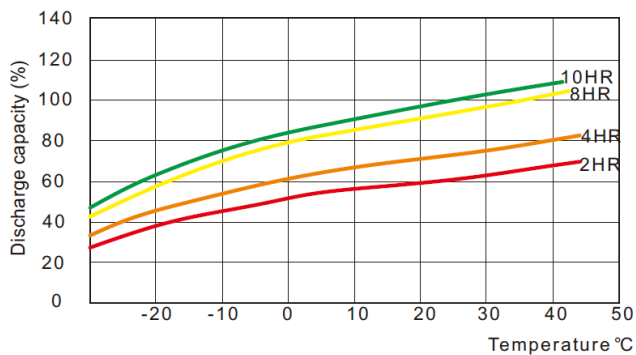
Constant Power Discharge Characteristics - Amperes @ 25°C (77°F)

Final VPC	Discharge Time In Minutes			Discharge Time In Hours								
	15	30	60	2	3	5	8	10	20	48	72	100
1.80	297	219	148	92.8	74.0	52.7	37.2	31.1	16.6	7.10	4.93	3.72
1.75	338	246	164	98.2	78.3	54.6	38.3	31.9	17.2	7.34	5.05	3.82
1.67	371	262	175	101	80.7	55.9	39.1	32.7	17.5	7.47	5.18	3.92

Cycle life vs. Depth of Discharge at 25°C (77°F)



Capacity at Different Temperature



Self-discharge at Different Temperature

