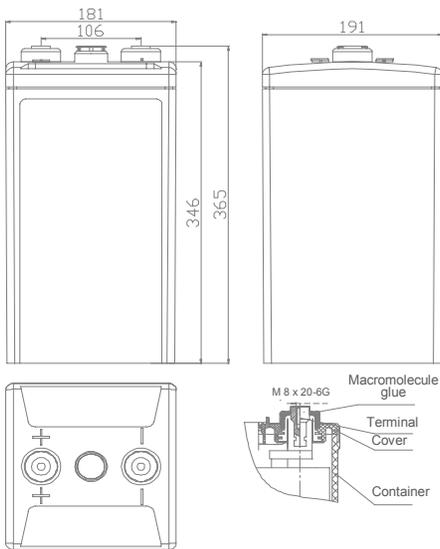




# HIGH PERFORMANCE LC 2-500

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

<b>Normal Voltage</b>	2V
<b>Capacity</b>	500Ah @ 10hr to 1.80V per cell @ 25°C (77°F)
<b>Dimension</b>	Length x Width x Height x Total Height: 191x181x346x365 (mm)
<b>Weight</b>	28.0kg (61.6lbs)
<b>Internal Resistance</b>	Approx. 0.35 mΩ
<b>Short Circuit Current</b>	4100A
<b>Self Discharge @ 25°C (77°F)</b>	No more than 3% after 30 days storage
<b>Applicable Operating Temperature Range</b>	-40°C~80°C (-40°F~176°F )
<b>Ideal Operating Temperature Range</b>	20°C~30°C (68°F~86°F)
<b>Maximum Charge Current</b>	100A
<b>Charging Voltage @ 25°C (77°F)</b>	Float: 2.25V, Temps coefficient -3 mV/°C Cycle: 2.35V, Temps coefficient -3 mV/°C
<b>Contain Materials</b>	ABS
<b>Terminal Type</b>	F-M8



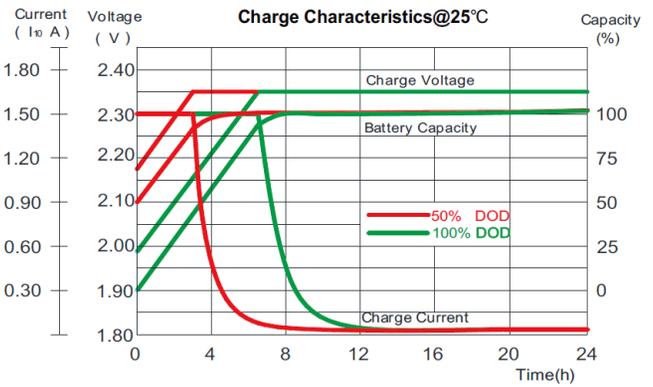
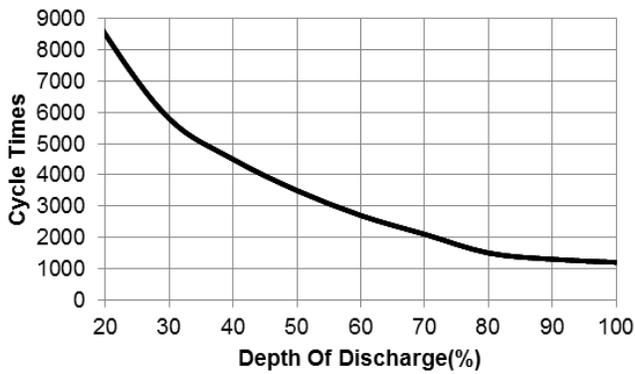
Constant Current Discharge Characteristics - Watts Per Cell @ 25°C (77°F)

Final VPC	Discharge Time In Minutes			Discharge Time In Hours								
	15	30	60	2	3	5	8	10	20	48	72	100
1.80	1071	843	590	316	252	171	119	100	57.6	24.60	15.9	12.0
1.75	1176	948	650	334	266	177	123	104	60.0	25.50	16.5	12.5
1.67	1234	983	664	345	275	182	127	106	61.1	26.00	16.8	12.7

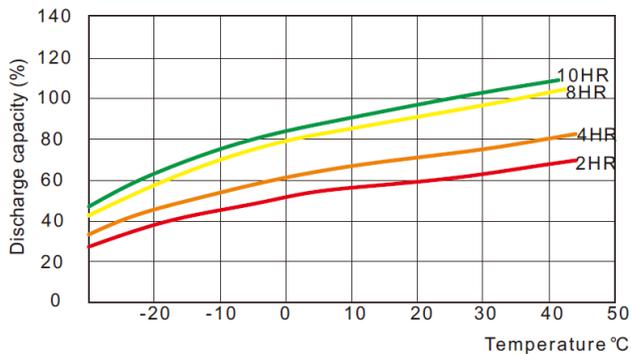
Constant Power Discharge Characteristics - Amperes @ 25°C (77°F)

Final VPC	Discharge Time In Minutes			Discharge Time In Hours								
	15	30	60	2	3	5	8	10	20	48	72	100
1.80	495	365	247	154	123	87.8	62.0	51.6	28.0	11.9	8.19	6.20
1.75	563	409	273	163	130	90.9	63.9	53.0	28.7	12.2	8.42	6.37
1.67	621	437	292	168	134	93.1	65.2	54.4	29.2	12.4	8.63	6.52

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



Capacity at Different Temperature



Self-discharge at Different Temperature

