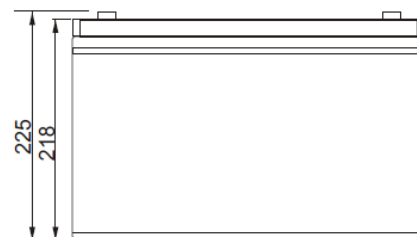
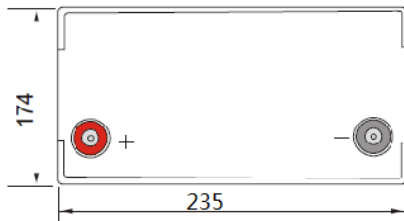




HIGH

PERFORMANCE
LC 12-85

VALVE REGULATED LEAD CARBON
12V FLAT PASTED PLATE
BATTERY



Innovative Features

- 15+ 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	12V
Capacity	85Ah @ 10hr to 1.80V per cell @ 25°C (77°F)
Dimension	Length x Width x Height x Total Height: 235x174x218x225 (mm)
Weight	27.0kg (59.4lbs)
Internal Resistance	Approx. 4.6 mΩ
Short Circuit Current	1224A
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	17A
Charging Voltage @ 25°C (77°F)	Float: 13.5V, Temps coefficient -18 mV/°C Cycle: 14.1V, Temps coefficient -18 mV/°C
Contain Materials	ABS
Terminal Type	F-M6



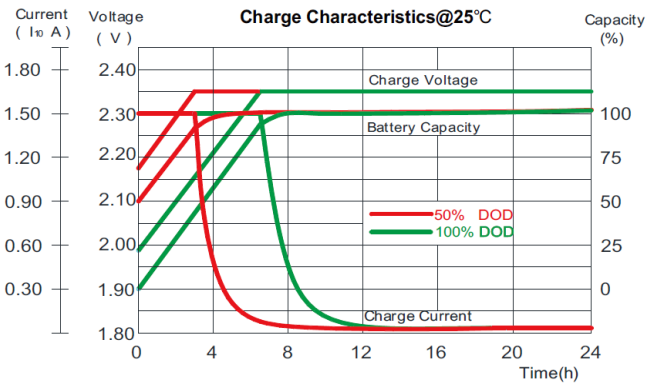
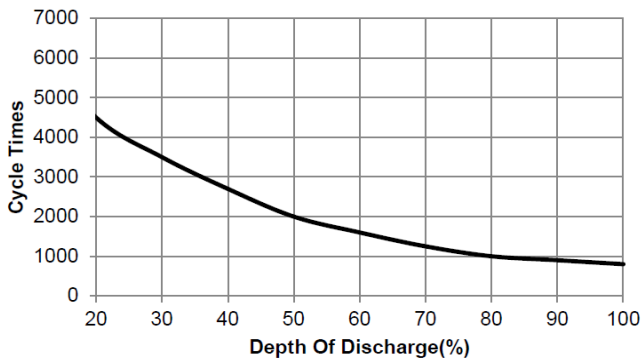
Constant Current Discharge Characteristics - Watts Per Cell @ 25°C (77°F)

Final VPC	Discharge Time In Minutes						Discharge Time In Hours									
	5	10	15	20	30	45	1	2	3	4	5	6	8	10	20	
1.80	349	273	238	202	152	110	90.9	56.1	42.0	33.6	28.2	24.8	20.1	17.1	8.98	
1.75	374	288	250	211	158	115	93.9	57.7	42.8	34.3	28.6	25.2	20.4	17.3	9.08	
1.67	404	304	263	225	169	122	98.6	60	44.2	35.3	29.4	25.9	20.8	17.5	9.19	

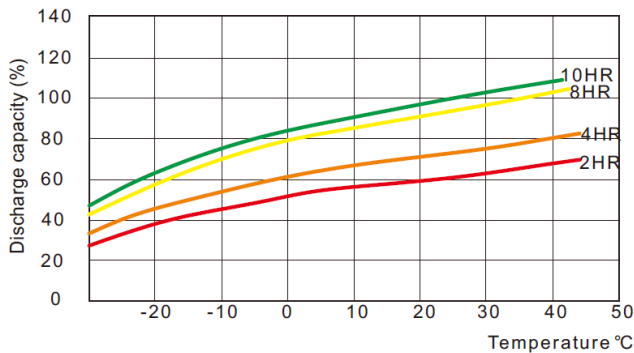
Constant Power Discharge Characteristics - Amperes @ 25°C (77°F)

Final VPC	Discharge Time In Minutes						Discharge Time In Hours									
	5	10	15	20	30	45	1	2	3	4	5	6	8	10	20	
1.80	190	147	127	107	79.5	58.2	47.7	28.8	21.5	17.2	14.4	12.6	10.2	8.65	4.54	
1.75	206	156	133	113	83.5	60.8	49.4	29.7	21.9	17.6	14.7	12.9	10.4	8.76	4.60	
1.67	230	169	141	121	89.9	64.8	52.2	31.2	22.8	18.1	15.2	13.2	10.6	8.94	4.70	

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



Capacity at Different Temperature



Self-discharge at Different Temperature

