

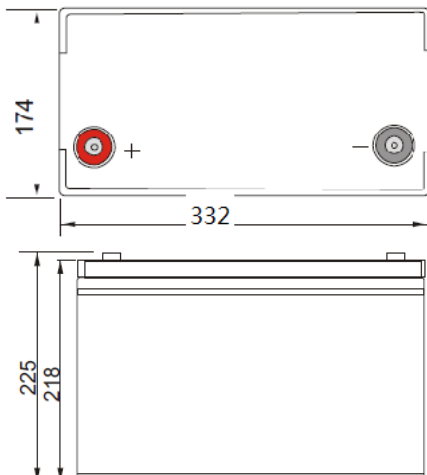


HIGH

PERFORMANCE

LC 12-100

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	100Ah @ 10hr to 1.80V per cell @ 25°C (77°F)
Dimension	Length x Width x Height x Total Height: 332x174x218x225 (mm)
Weight	30.0kg (66.0lbs)
Internal Resistance	Approx. 4.3 mΩ
Short Circuit Current	1440A
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	20A
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



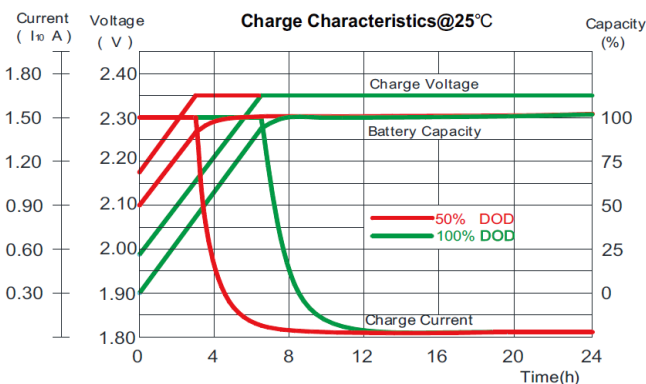
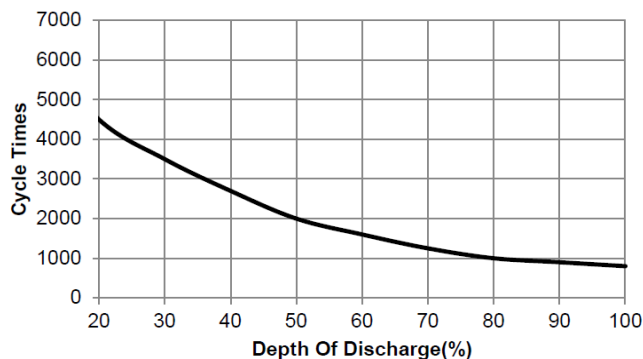
Constant Current Discharge Characteristics - Watts Per Cell @ 25°C (77°F)

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	410	322	280	238	179	130	107	66	49.4	39.5	33.2	29.2	23.7	20.2	10.6
1.75	440	339	294	249	186	135	110	67.8	50.3	40.3	33.7	29.7	24.0	20.3	10.7
1.67	475	357	309	264	199	143	116	70.6	52.0	41.5	34.6	30.5	24.5	20.6	10.8

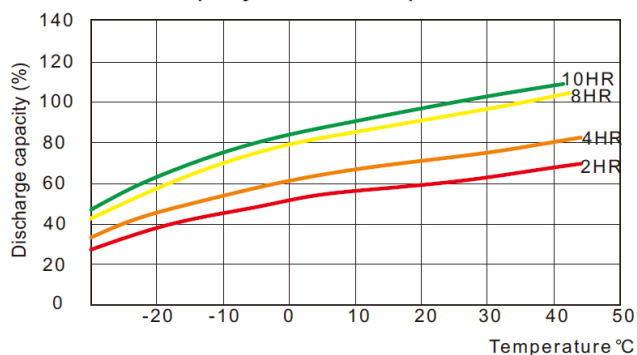
Constant Power Discharge Characteristics - Amperes @ 25°C (77°F)

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	224	172	149	126	93.5	68.5	56.1	33.9	25.3	20.2	16.9	14.9	12.0	10.2	5.34
1.75	242	183	157	132	98.2	71.5	58.1	35.0	25.8	20.7	17.2	15.1	12.2	10.3	5.41
1.67	270	199	166	142	106	76.3	61.4	36.7	26.9	21.3	17.9	15.5	12.5	10.5	5.53

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



Capacity at Different Temperature



Self-discharge at Different Temperature

