LIB12-200

(12V200Ah)

LIB (Deep Cycle GEL,12 Volts) series is pure GEL battery with 12 years floating design life, it is ideal for standby or frequent cyclic discharge applications under extreme environments. By using strong grids, high purity lead and patented Gel electrolyte, the LIB series offers excellent recovery after deep discharge under frequent cyclic discharge use Suitable for solar, CATV, marine, RV and deep discharge UPS applications.

Cells Per Unit	6
Voltage Per Unit	12
Capacity	200Ah@10hr-rate to 1.75V per cell @25℃
Weight	Approx. 59.5 Kg
Max. Discharge Current	2000A (5 sec)
Internal Resistance	Approx. 5.2 mΩ
	Disch.: -40 ℃~60℃
Operating Temperature Range	Charge: -20℃~50℃
	Storage: -40 ℃~60 ℃
Normal Operating Temperature Range	25℃±5℃
Float Charging Voltage	13.6 to 13.8 VDC/unit Average at 25℃
Recommended Maximum Charging Current	40A
Equalization and Cycle Service	14.2 to 14.4VDC/unit Average at 25℃
Self Discharge	LEXRON Valve Regulated Lead Acid (VRLA) batteries can be stored for more than 6 months at 25 °C. Self-discharge ratio less than 3% per month at 25 °C. Please charge batteries before using.
Terminal	Terminal M8
Container Material	A.B.S. UL94-HB



General Features

- > Nanosilica colloidal electrolyte and high tin positive plate alloy design to enhance battery performance
- Relatively rich electrolyte, high temperature and low temperature performance is superior
- > Long cycle life, excellent deep cycle discharge ability
- > Excellent charge acceptance ability
- > Precision sealing technology
-) Long life











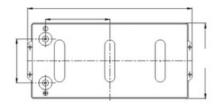


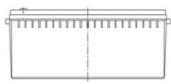


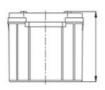
Dimensions

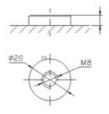
Unit: mm

Dimension: 522(L) × 240(W) × 222(H)









Constant Current Discharge Characteristics: A (25°C)(The capacity reaches the peak value after 5-20 cycles.)

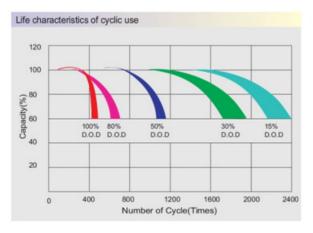
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
9.60V	476.4	340.9	273.6	183.4	116.6	70.20	50.79	40.54	34.42	23.31	19.36	10.61
10.0V	462.6	324.4	268.0	181.8	116.1	69.67	50.59	40.35	34.22	23.12	19.17	10.42
10.2V	448.9	312.9	263.8	180.7	115.0	69.15	50.20	40.16	34.02	22.93	18.98	10.22
10.5V	407.8	292.2	254.1	177.9	113.9	68.62	50.01	39.79	33.61	22.75	18.80	10.00
10.8V	372.4	269.6	237.0	171.7	110.0	67.39	48.65	38.85	32.79	21.84	18.20	9.496
11.1V	321.6	243.7	215.0	162.4	104.5	64.40	46.50	36.97	31.38	20.91	17.66	8.937

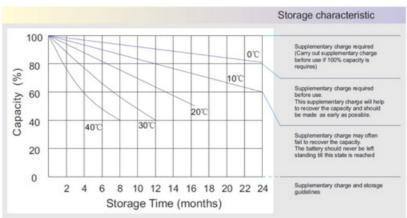
Constant Power Discharge Characteristics: W (25°C)(The capacity reaches the peak value after 5-20 cycles.)

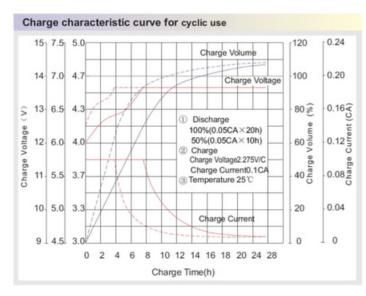
F	.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
	9.60V	4927	3630	3010	2091	1347	827.4	605.9	483.2	410.6	278.4	231.3	127.2
E	10.0V	4830	3519	2962	2083	1344	823.1	604.6	482.6	409.6	277.0	229.8	125.0
	10.2V	4775	3426	2928	2072	1334	818.1	601.9	481.6	408.2	275.2	227.8	122.7
	10.5V	4398	3229	2826	2044	1322	812.2	599.6	477.1	403.3	272.9	225.6	120.4
	10.8V	4052	3011	2643	1978	1284	801.8	583.3	466.2	393.4	262.1	218.5	113.9
	11.1V	3600	2754	2406	1876	1229	772.0	558.1	443.7	376.5	251.0	211.9	107.2

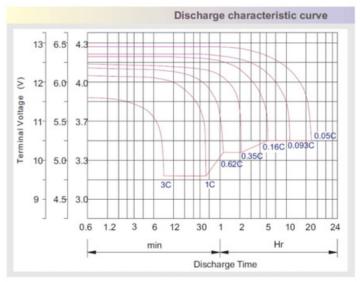
LIB12-200











Capacity Factors With Different Temperature

Battery	Type	-20°C	-10°C	0℃	5℃	10°C	20°C	25℃	30℃	40°C	45℃
GEL	6V&12V	50%	70%	83%	85%	90%	98%	100%	102%	104%	105%
Battery	2V	60%	75%	85%	88%	92%	99%	100%	103%	105%	106%
AGM	6V&12V	46%	66%	76%	83%	90%	98%	100%	103%	107%	109%
Battery	2V	55%	70%	80%	85%	92%	99%	100%	104%	108%	110%

Discharge Current VS. Discharge Voltage

Final Discharge Voltage V /cell	1.75V	1.70V	1.60V
Discharge Current (A)	(A) ≤0.2C	0.2C< (A) <1.0C	(A) ≥1.0C

Charge the batteries at least once every 3 months, if stored at 25°C.

Charging Method:

Constant Voltage	-0.2Cx2h+2.4-2.45V/cellx24h,Max. Current 0.2C
Constant Current	-0.2Cx2h+0.1Cx12h
Fast	-0.2Cx2h+0.2Cx6h

Bolt	M5	M6	M8
Terminal	F3 F4 F13 F18 T25 T26	F8 F11 F12-1 F15	F5 F9 F10 F12 F14 F16
Torque	6~7N-m	8~10N-m	10~12N-m

Maintenance & Cautions

Cycle service

*	Avoid battery over discharge, especially battery series connection use.
*	Charge with recommended voltage, ensure battery can be full recharged.

In general, recharge capacity should be 1.1-1.15 times disc. capacity

* There are a number of factors that will affect the length of cyclic service.

The most significant are depth of discharge, ambient temperature,

discharge rate, and the manner in which the battery is recharged.

Generally speaking, the most important factor is depth of discharge.