Power your life LONG

Valve Regulated Lead Acid Battery

WPL100-12RN

Specifications

Nominal Voltage(V)

12V

Nominal Capacity

20 hour rate	(5A	to	10.50V)	100Ah
10 hour rate	(10A	to	10.80V)	100Ah
5 hour rate	(17A	to	10.20V)	85Ah
1 hour rate	(60A	to	9.60V)	60Ah

Weight

Approx. 31.3kg(68.9Lbs.)

Internal Resistance (at 1KHz)

Approx. 4 mΩ

Maximum Discharge Current for

5 seconds: 1100A

Charging Methods at 25℃(77℉)

Cycle use:
Charging Voltage 14.4 to 15.0V
Coefficient -5.0mV/℃/cell
Maximum Charging Current： 30A
Standby use:
Float Charging Voltage 13.5 to 13.8V
Coefficient -3.0mV/℃/cell

Operating Temperature Range

Charge	-15℃(5℉)	to	40℃(104℉)
Discharge	-15℃(5℉)	to	50℃(122℉)
Storage	-15℃(5℉)	to	40℃(104℉)

Charge Retention (shelf life) at 20℃(68℉)

1 month	98%
3 month	94%
6 month	85%

Case Material

ABS UL94 HB
Option: Flammability resistance of (UL94 V-0)

Design Life & Standard

EUROBAT(20℃)：>12 YEARS VERY LONG LIFE

Terminal

F18



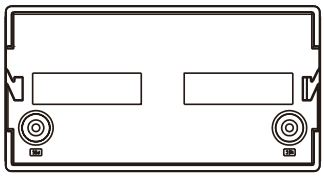
Dimensions

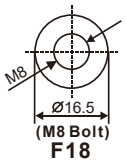
Length (L)	329.5±3 (12.97±0.12)
Width (W)	172.3±3 (6.78±0.12)
Height (H)	215±3 (8.46±0.12)
Overall Height (HT)	222±3 (8.74±0.12)

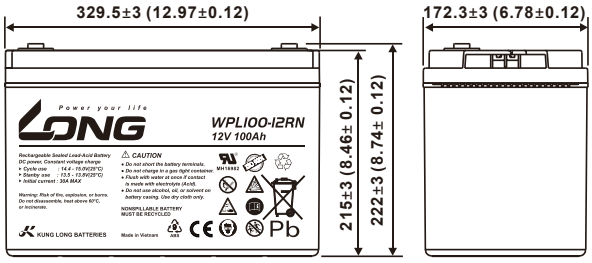
Description of torque value of hard ware for the terminals:

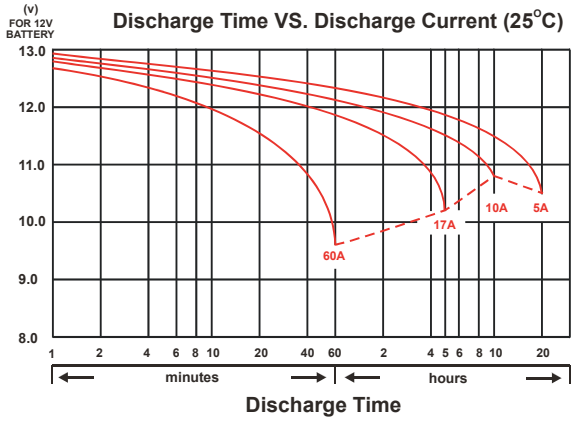
Recommended torque value M8: 12 N-m (122 kgf-cm)
Maximum allowable torque value M8: 20 N-m (204 kgf-cm)

mm(inch)





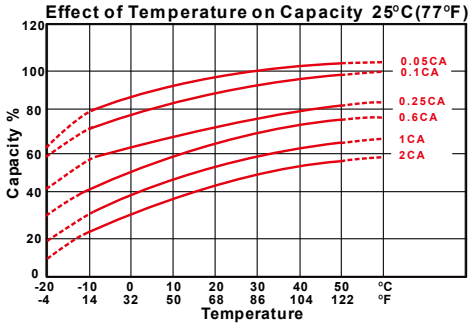


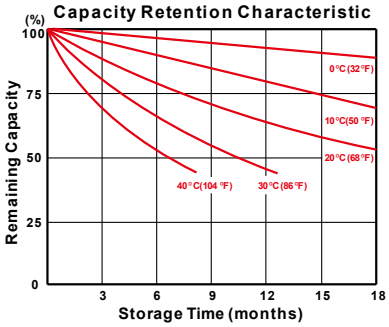


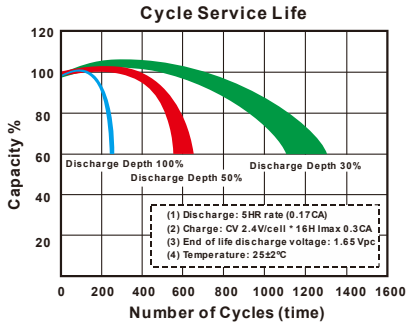
Power your life

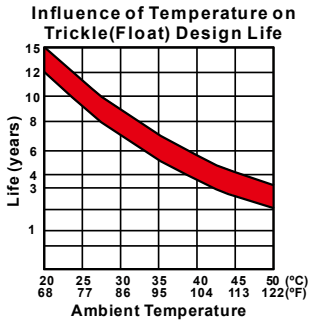
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- PERFORMANCE DATA

Discharge Rates in Watts to Various End Voltages at 25℃(77℉)

Time \ End Voltage		1.85V	1.80V	1.75V	1.70V	1.65V	1.60V
15	min	295	327	340	358	378	385
30	min	210	220	233	236	239	241
45	min	147	159	167	175	179	182
60	min	128	134	140	143	145	147
90	min	88.9	92.1	94.6	96.7	98.7	100
180	min	50.4	53.7	55.8	57.6	58.6	59.2
300	min	33.8	35.5	37.3	37.7	38.0	38.3
480	min	20.2	22.5	23.2	23.7	24.2	24.4
600	min	19.2	19.9	20.2	20.5	20.8	21.0
1200	min	10.5	10.8	11.1	11.2	11.4	11.6

- Discharge Rates in Amperes to Various End Voltages at 25℃(77℉)

Time \ End Voltage		1.85V	1.80V	1.75V	1.70V	1.65V	1.60V
15	min	163	181	191	200	206	212
30	min	106	114	118	123	127	132
45	min	82.7	86.1	89.1	91.1	93.1	95.0
60	min	61.0	65.3	69.5	71.7	72.8	73.9
90	min	44.2	47.3	49.4	50.2	50.8	51.3
180	min	28.3	29.1	29.8	30.4	30.7	30.9
300	min	17.1	17.9	18.7	18.9	19.1	19.3
480	min	11.0	11.9	12.3	12.5	12.8	12.9
600	min	9.81	10.1	10.3	10.5	10.7	10.8
1200	min	5.13	5.28	5.42	5.45	5.48	5.50

All data on the spec. sheet is an average value:
The tolerance range : X<6min(+15%~-15%), 6min≦X<10min(+12%~-12%),10min ≦X < 60min(+8% ~-8%), X≧60min(+5%~-5%)

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