Power your life

Valve Regulated Lead Acid Battery

WPL120-12RN

Specifications

Nominal Voltage(V)

12V

Nominal Capacity

20 hour rate	(6A	to	10.50V)	120Ah
10 hour rate	(12A	to	10.80V)	120Ah
5 hour rate	(20.4A	to	10.20V)	102Ah
1 hour rate	(72A	to	9.60V)	72Ah

Weight

Approx. 35.5kg(78.1Lbs.)

Internal Resistance (at 1KHz)

Approx. 5.5 mΩ

Maximum Discharge Current for

5 seconds: 1200A

Charging Methods at 25℃(77℉)

Maximum Charging Current：	36A
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

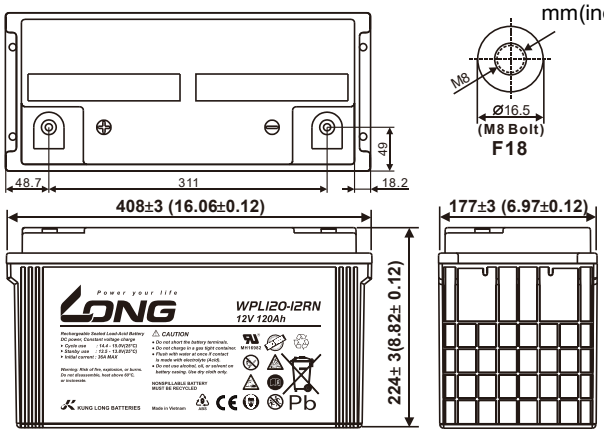
Dimensions

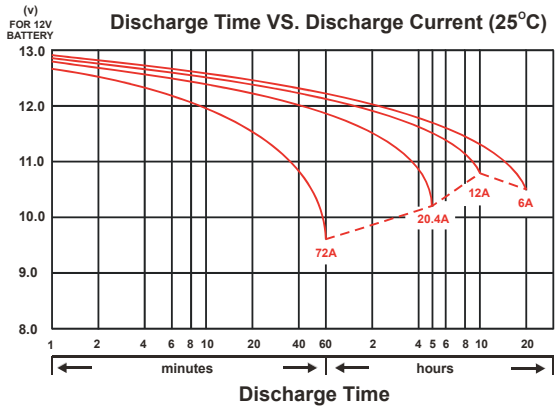
Length (L)	408±3 (16.06±0.12)
Width (W)	177±3 (6.97±0.12)
Height (H)	224±3 (8.82±0.12)
Overall Height (HT)	224±3 (8.82±0.12)

Description of torque value of hardware 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)





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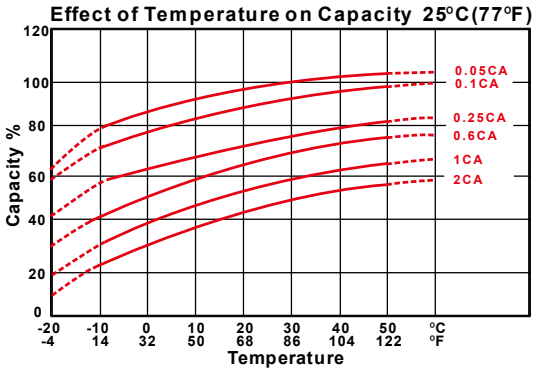

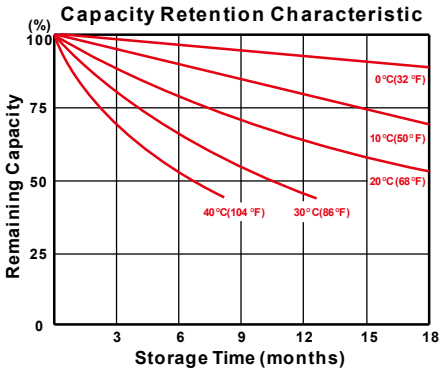

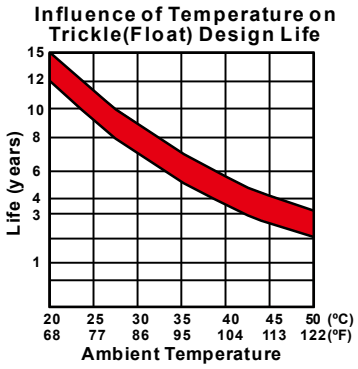

- PERFORMANCE DATA

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	300	332	350	368	384	396
30	min	215	225	235	241	247	250
45	min	150	161	169	177	181	184
60	min	130	136	142	145	147	149
90	min	89.8	93.0	95.6	98.4	101.4	105
180	min	53.2	55.7	57.9	59.4	60.9	62.2
300	min	37.3	38.9	39.6	40.3	40.9	41.5
480	min	25.9	27.3	27.8	28.2	28.5	28.8
600	min	21.5	23.4	23.9	24.2	24.4	24.5
1200	min	11.2	11.7	12.0	12.4	12.6	12.7

- 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	165	185	192	201	210	216
30	min	108	116	120	125	130	135
45	min	83.5	87.0	90.0	92.0	94.0	96.0
60	min	66.2	70.0	73.0	75.0	77.0	77.7
90	min	47.9	51.0	53.1	55.0	56.9	58.8
180	min	28.9	29.7	30.4	31.0	31.3	31.5
300	min	18.6	20.3	21.0	21.5	21.7	21.9
480	min	13.2	14.1	14.5	14.7	15.0	15.1
600	min	11.7	12.5	12.6	12.7	12.8	13.0
1200	min	5.89	6.29	6.34	6.39	6.44	6.54

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%)

190625-1R

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