Valve Regulated Lead Acid Battery

WPL55-12N

Specifications

Nominal Voltage(V)

12V

Nominal Capacity

20 hour rate	(2.75A	to	10.50V)	55Ah
10 hour rate	(5.225A	to	10.50V)	52.25Ah
5 hour rate	(9.35A	to	10.20V)	46.75Ah
1C	(55A	to	9.60V)	34.83Ah
3C	(165A	to	9.60V)	22Ah

Weight

Approx. 17.0kg(37.4Lbs.)

Internal Resistance (at 1KHz)

Approx. 8 mΩ

Maximum Discharge Current for

5 seconds:660A

Charging Methods at 25℃(77℉)

Cycle use:
Charging Voltage 14.4 to 15.0V
Coefficient -5.0mV/℃/cell
Maximum Charging Current : 16.5A
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	97%
3 month	92%
6 month	85%

Case Material

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

Design Life & Standard

EUROBAT(20℃) : 10/12 YEARS LONG LIFE

Terminal

F8

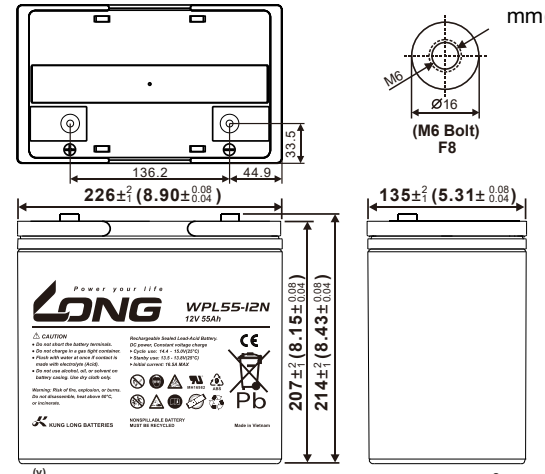
Dimensions

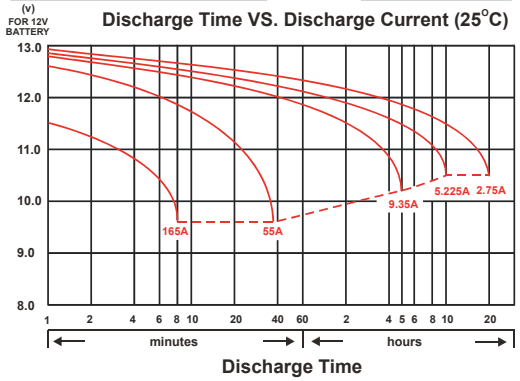
Length (L)	$226\pm^{2}_{1}(8.90\pm^{0.08}_{0.04})$
Width (W)	$135\pm^{2}_{1}(5.31\pm^{0.08}_{0.04})$
Height (H)	$207\pm^{2}_{1}(8.15\pm^{0.08}_{0.04})$
Overall Height (HT)	$214\pm^{2}_{1}(8.43\pm^{0.08}_{0.04})$

Description of torque value of hardware for the terminals:

Recommended torque value M6: 7 N-m (71 kgf-cm)
Maximum allowable torque value M6: 10 N-m (102 kgf-cm)

mm(inch)





Power your life

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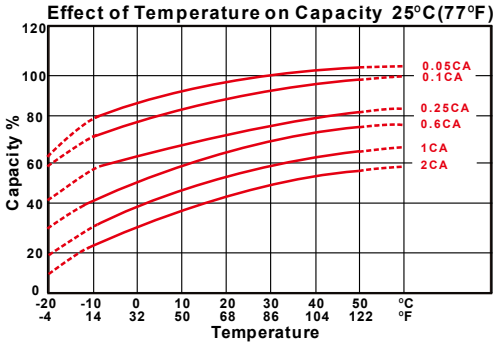

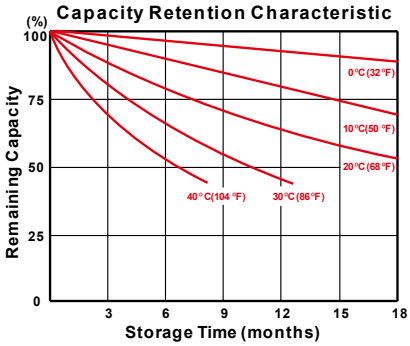

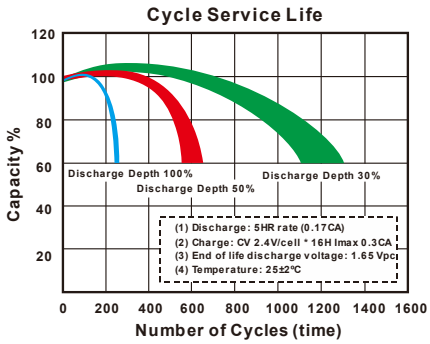

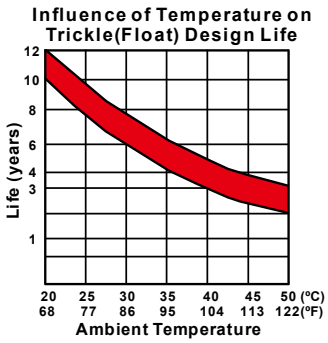

- PERFORMANCE DATA

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

Time \ End Voltage		1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
15	min	175	190	200	205	208	210	212
30	min	105	112	118	123	126	128	130
60	min	61.8	64.3	66.2	67.6	68.2	68.7	68.9
120	min	31.6	33.6	35.2	36.4	36.8	37.0	37.1
180	min	25.5	27.0	28.3	29.1	29.4	29.6	29.7
240	min	20.8	21.8	22.6	23.1	23.4	23.6	23.7
300	min	18.1	19.0	19.8	20.2	20.4	20.5	20.6
480	min	12.0	12.6	13.0	13.3	13.5	13.6	13.7
600	min	10.5	11.0	11.3	11.5	11.6	11.7	11.8
1200	min	5.40	5.66	5.81	5.91	5.98	6.02	6.07

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

Time \ End Voltage		1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
15	min	86.7	94	100	104	107	110	112
30	min	50.0	56.5	62.4	65.9	67.9	68.2	68.4
60	min	27.8	30.8	33.1	33.9	34.1	34.3	34.4
120	min	16.0	17.2	18.1	18.7	19.0	19.2	19.4
180	min	12.1	13.1	13.8	14.0	14.1	14.2	14.3
240	min	10.2	10.7	11.0	11.3	11.5	11.7	11.8
300	min	8.82	9.12	9.40	9.62	9.75	9.81	9.8
480	min	5.77	6.07	6.34	6.38	6.40	6.41	6.42
600	min	4.95	5.25	5.50	5.54	5.55	5.56	5.57
1200	min	2.50	2.65	2.78	2.80	2.80	2.81	2.81

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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