Valve Regulated Lead Acid Battery

WPL36-12N

Specifications

Nominal Voltage(V)

12V

Nominal Capacity

20 hour rate	(1.8A	to	10.50V)	36Ah
10 hour rate	(3.42A	to	10.50V)	34.2Ah
5 hour rate	(6.12A	to	10.20V)	30.6Ah
1C	(36A	to	9.60V)	22.8Ah
3C	(108A	to	9.60V)	14.4Ah

Weight

Approx. 11.0kg(24.2Lbs.)

Internal Resistance (at 1KHz)

Approx. 8 mΩ

Maximum Discharge Current for

5 seconds:540A

Charging Methods at 25℃(77℉)

Maximum Charging Current：	10.8A
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

F6

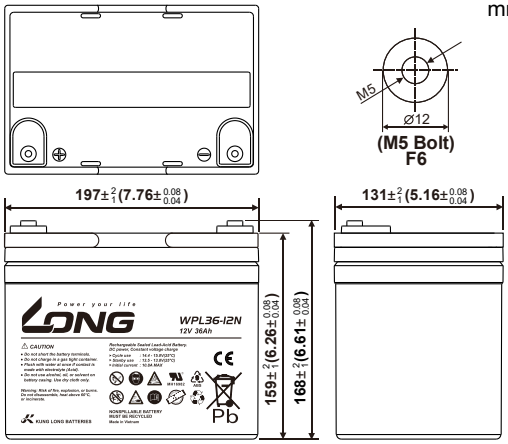
Dimensions

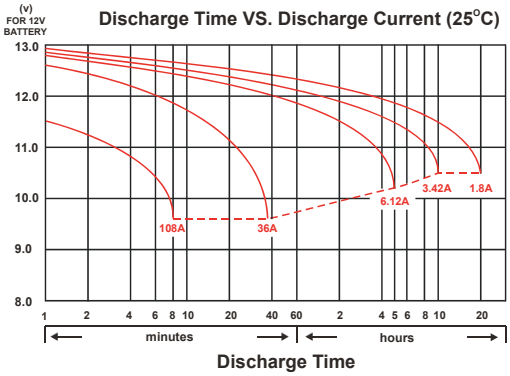
Length (L)	$197\pm^{2}_{1}(7.76\pm^{0.08}_{0.04})$
Width (W)	$131\pm^{2}_{1}(5.16\pm^{0.08}_{0.04})$
Height (H)	$159\pm^{2}_{1}(6.26\pm^{0.08}_{0.04})$
Overall Height (HT)	$168\pm^{2}_{1}(6.61\pm^{0.08}_{0.04})$

Description of torque value of hardware for the terminals:

Recommended torque value	M5:4 N-m (41kgf-cm)
Maximum allowable torque value	M5:6 N-m (61kgf-cm)

mm(inch)





Power your life

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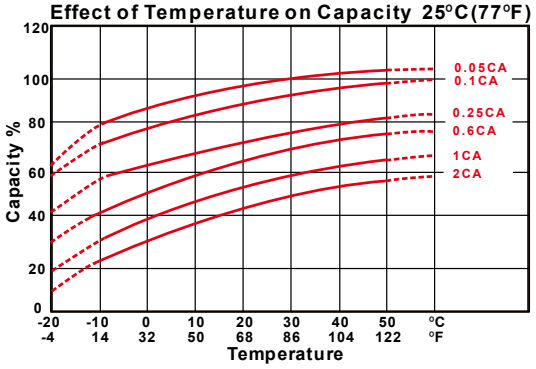

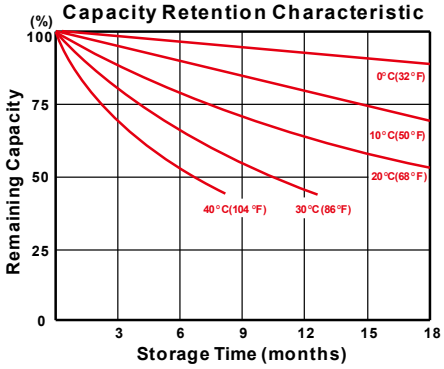

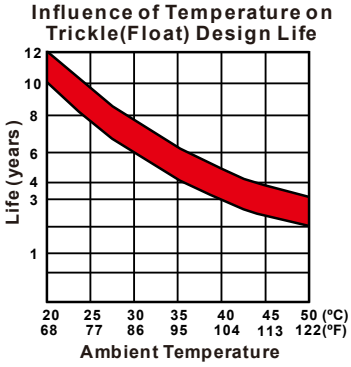

- PERFORMANCE DATA

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	1.63V	1.60V
15	min	125	128	131	133	135	137	138	139
20	min	103	107	109	111	113	115	116	117
30	min	76.5	78.3	79.3	79.9	80.3	80.7	81.1	81.4
45	min	57.2	57.9	58.5	58.8	59.1	59.2	59.3	59.3
60	min	43.7	45.0	45.8	46.3	46.6	46.7	46.8	46.9
90	min	33.0	33.7	34.1	34.5	34.8	35.0	35.2	35.3
120	min	22.4	23.6	24.3	24.7	24.9	25.1	25.3	25.3
180	min	15.1	15.7	16.2	16.6	16.9	17.1	17.2	17.3
240	min	11.2	11.7	11.9	12.1	12.3	12.4	12.5	12.5
300	min	9.53	9.89	10.0	10.1	10.2	10.2	10.3	10.4
600	min	4.83	5.00	5.13	5.22	5.28	5.31	5.34	5.37
1200	min	3.22	3.32	3.42	3.44	3.48	3.50	3.52	3.54

- 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	1.63V	1.60V
15	min	64.2	67.2	71.0	73.8	75.0	75.3	75.6	75.8
20	min	53.2	56.0	58.3	59.0	59.5	59.7	59.9	60.0
30	min	35.9	38.1	39.9	40.3	40.5	40.8	41.0	41.1
45	min	26.8	29.3	31.0	31.3	31.8	32.1	32.3	32.4
60	min	20.0	21.0	21.6	21.9	22.1	22.3	22.4	22.5
90	min	16.3	17.0	17.5	17.7	17.9	18.1	18.2	18.2
120	min	11.8	12.4	12.8	13.0	13.1	13.2	13.3	13.3
180	min	8.38	8.73	9.00	9.22	9.38	9.50	9.58	9.62
240	min	6.78	7.07	7.21	7.30	7.36	7.38	7.39	7.40
300	min	5.69	5.93	6.02	6.06	6.10	6.12	6.14	6.16
600	min	3.22	3.33	3.42	3.48	3.52	3.54	3.55	3.55
1200	min	1.71	1.76	1.80	1.82	1.84	1.84	1.85	1.85

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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