Valve Regulated Lead Acid Battery

WPL28-12TM

Specifications

Nominal Voltage(V)

12V

Nominal Capacity

20 hour rate	(1.4A	to	10.50V)	28Ah
10 hour rate	(2.66A	to	10.50V)	26.6Ah
5 hour rate	(4.76A	to	10.20V)	23.8Ah
1C	(28A	to	9.60V)	17.73Ah
3C	(84A	to	9.60V)	11.2Ah

Weight

Approx. 9.18kg(20.2Lbs.)

Internal Resistance (at 1KHz)

Approx. 9.4 mΩ

Maximum Discharge Current for

5 seconds:420A

Charging Methods at 25℃(77℉)

Cycle use:	
Charging Voltage	14.4 to 15.0V
Coefficient -5.0mV/℃/cell	
Maximum Charging Current：	8.4A
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

F9

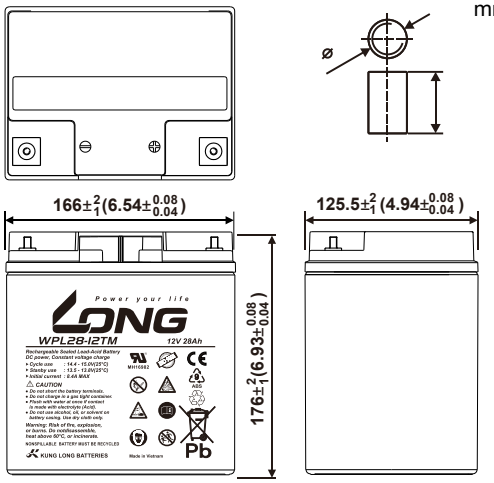
Dimensions

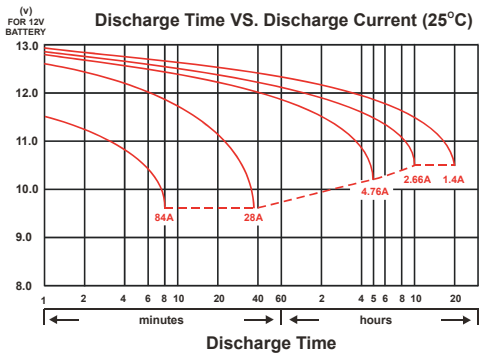
Length (L)	$166\pm^{2}_{1}(6.54\pm^{0.08}_{0.04})$
Width (W)	$125.5\pm^{2}_{1}(4.94\pm^{0.08}_{0.04})$
Height (H)	$176\pm^{2}_{1}(6.93\pm^{0.08}_{0.04})$
Overall Height (HT)	$176\pm^{2}_{1}(6.93\pm^{0.08}_{0.04})$

Description of torque value of hardware for the terminals:

Recommended torque value	M5: 2.5 N-m (25kgf-cm)
Maximum allowable torque value	M5: 3.5 N-m (36kgf-cm)

mm(inch)





Power your life

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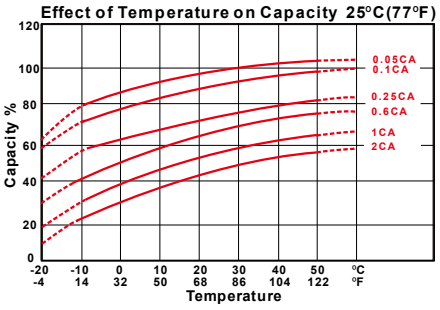

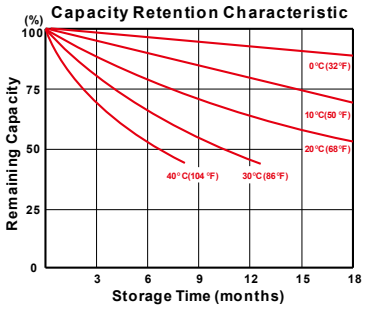

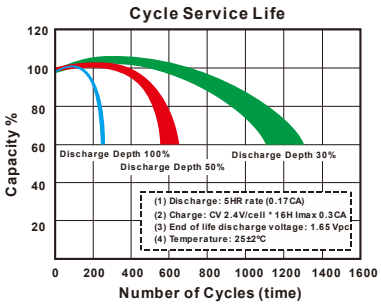

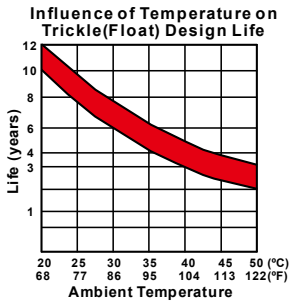

- PERFORMANCE DATA

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	86.4	94.7	102	104	106	108	110
20	min	76.6	82.3	83.4	84.3	85.1	85.9	86.7
30	min	54.4	58.7	59.9	60.7	61.4	62.1	62.8
45	min	45.4	48.5	49.4	49.9	50.3	50.6	50.9
60	min	35.0	36.5	36.9	37.2	37.5	37.8	38.2
90	min	25.0	25.9	26.5	26.9	27.3	27.5	27.7
120	min	21.0	21.9	22.3	22.5	22.6	22.8	23.0
180	min	15.5	16.2	16.4	16.6	16.7	16.8	16.9
240	min	11.9	12.4	12.7	12.8	12.9	13.0	13.1
300	min	10.0	10.4	10.5	10.6	10.7	10.8	10.9
600	min	5.56	5.72	5.85	5.86	5.88	5.89	5.91
1200	min	3.00	3.03	3.09	3.11	3.12	3.14	3.15

- 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	44.6	49.0	52.7	54.6	56.1	57.6	58.6
20	min	35.7	39.2	42.1	43.7	44.9	46.1	46.9
30	min	27.8	29.9	31.0	31.9	32.6	33.2	33.4
45	min	21.1	22.6	23.0	24.2	24.7	24.9	25.1
60	min	16.3	17.4	18.1	18.6	19.1	19.3	19.4
90	min	12.6	13.6	14.0	14.4	14.7	15.0	15.2
120	min	10.6	11.3	11.5	11.8	11.9	12.2	12.3
180	min	7.39	7.69	7.94	8.05	8.18	8.35	8.38
240	min	5.97	6.09	6.23	6.34	6.41	6.48	6.51
300	min	4.95	5.08	5.19	5.33	5.38	5.42	5.45
600	min	2.74	2.82	2.91	2.93	2.95	2.97	2.98
1200	min	1.45	1.48	1.51	1.53	1.54	1.55	1.56

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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