Power your life

Valve Regulated Lead Acid Battery

WP30-12TNE

Specifications

Nominal Voltage(V)

12V

Nominal Capacity

20 hour rate	(1.5A	to	10.50V)	30Ah
10 hour rate	(2.85A	to	10.50V)	28.5Ah
5 hour rate	(5.1A	to	10.20V)	25.5Ah
1 C	(30A	to	9.60V)	17Ah
3 C	(90A	to	9.60V)	12Ah

Weight

Approx. 9.7kg(21.3Lbs.)

Internal Resistance (at 1KHz)

Approx. 9.5 mΩ

Maximum Discharge Current for

5 seconds: 450A

Charging Methods at 25℃(77℉)

Cycle use:	
Charging Voltage	14.4 to 15.0V
Coefficient -5.0mV/℃/cell	
Maximum Charging Current：	9A
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)

Terminal

F8

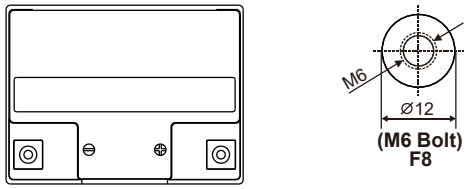
Dimensions

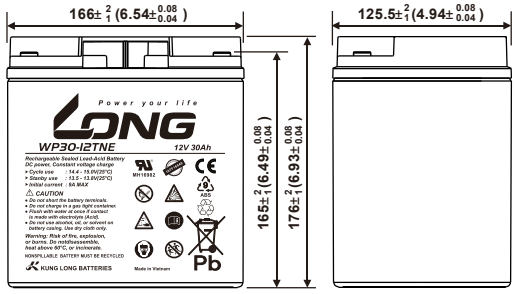
Length (L)	$166\pm^{2}_{1}(6.54\pm^{0.08}_{0.04})$
Width (W)	$125.5\pm^{2}_{1}(4.94\pm^{0.08}_{0.04})$
Height (H)	$176\pm^{2}_{1}(6.93\pm^{0.08}_{0.04})$
Overall Height (HT)	$176\pm^{2}_{1}(6.93\pm^{0.08}_{0.04})$

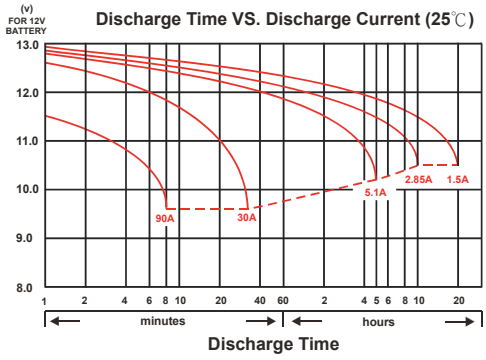
Description of torque value of hardware for the terminals:

Recommended torque value	M6: 4 N-m (41 kgf-cm)
Maximum allowable torque value	M6: 6 N-m (61 kgf-cm)

mm(inch)







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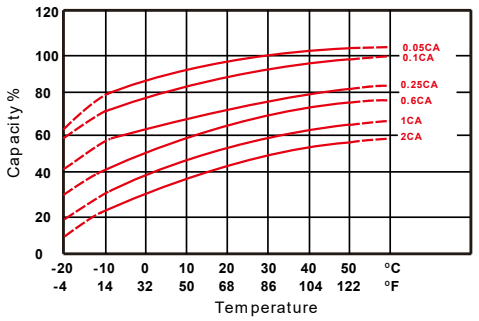
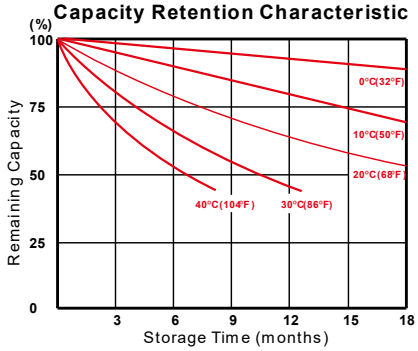
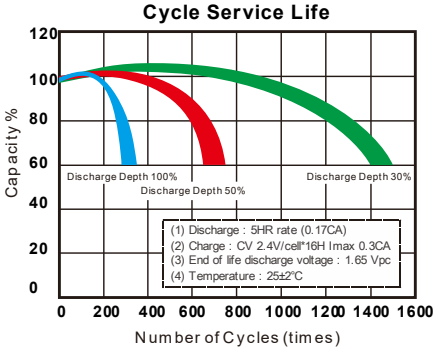
Effect of Temperature on Capacity 25°C(77°F)



Capacity Retention Characteristic



Cycle Service Life



- 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
10	min	111	120	128	132	136	139	144
15	min	90.0	96.7	105	107	109	111	113
30	min	56.7	59.9	61.8	62.7	63.3	64.0	64.5
60	min	36.5	37.3	38.0	38.3	38.7	39.0	39.3
120	min	21.8	22.3	23.0	23.2	23.3	23.5	23.7
180	min	16.2	16.5	16.7	16.8	17.0	17.2	17.3
240	min	12.4	12.8	13.1	13.3	13.4	13.5	13.6
300	min	10.4	10.6	10.7	10.8	11.0	11.0	11.1
600	min	5.92	6.08	6.22	6.23	6.25	6.27	6.28
1200	min	3.18	3.22	3.28	3.30	3.32	3.33	3.35

- 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
10	min	59.5	64.4	68.3	71.0	73.7	76.4	79.2
15	min	46.5	50.0	54.3	55.8	57.2	58.5	59.8
30	min	29.0	30.5	31.9	32.6	33.1	33.6	34.0
60	min	17.0	17.8	18.6	19.0	19.4	19.6	19.8
120	min	11.0	11.5	11.9	12.0	12.1	12.2	12.3
180	min	7.70	7.90	8.10	8.21	8.30	8.38	8.46
240	min	6.15	6.25	6.36	6.42	6.48	6.53	6.58
300	min	5.10	5.18	5.30	5.38	5.42	5.46	5.51
600	min	2.91	2.97	3.06	3.07	3.08	3.09	3.10
1200	min	1.53	1.56	1.60	1.61	1.62	1.63	1.63

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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