

## WPL150-12N 12Volt 150Ah

### Specifications

Nominal Voltage(V) **12V**

#### Nominal Capacity

10 hour rate (15A to 10.80V)	<b>150Ah</b>
5 hour rate (25.5A to 10.20V)	<b>127.5Ah</b>
1 hour rate (90A to 9.60V)	<b>90Ah</b>

Weight **Approx. 45.4kg(100Lbs.)**

Internal Resistance (at 1KHz) **Approx. 4.8mΩ**

#### Maximum Discharge Current for

5 seconds: **1500A**

#### Charging Methods at 25 (77 )

##### Cycle use:

Charging Voltage **14.4 to 15.0V**

Coefficient -5.0mV/ /cell

Maximum Charging Current : **45A**

##### 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 )**

Design Life **12 years**

#### Charge Retention (shelf life) at 20 (68 )

1 month **98%**

3 month **94%**

6 month **85%**

Case Material **ABS**

(Option: UL94 HB & UL94 V-0 flame retardant )

Terminal **F18**

#### Description of torque value of hard ware for the terminals:

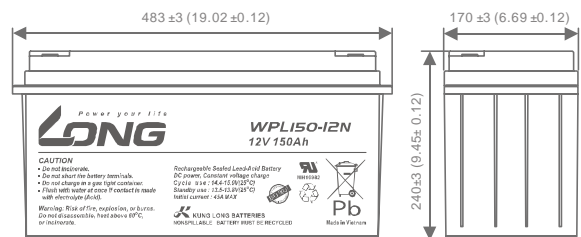
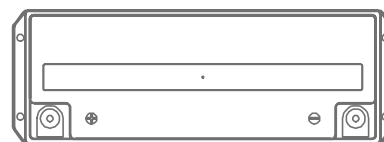
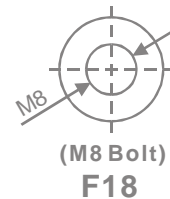
Recommended torque value **M8: 7.35 N-m (75kg-cm)**

Maximum allowable torque value **M8: 9.8 N-m (100kg-cm)**

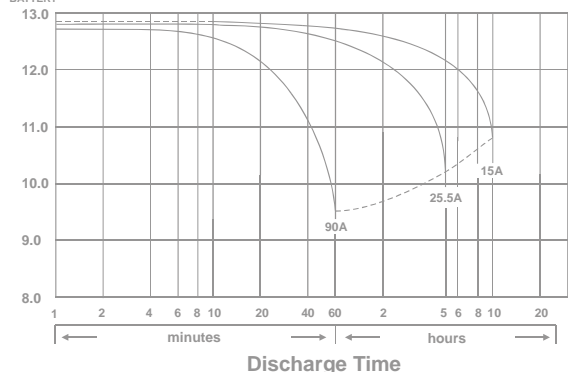


### Dimensions

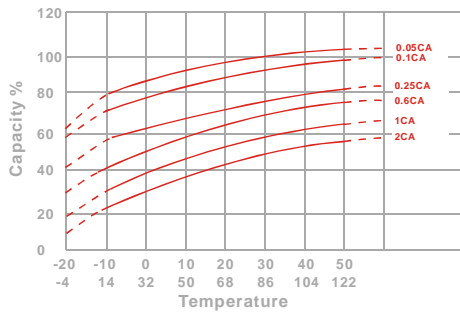
mm(inch)



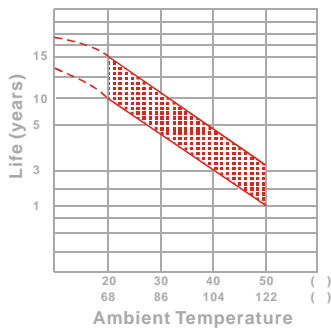
(V) FOR 12V BATTERY Discharge Time VS. Discharge Current (25 )



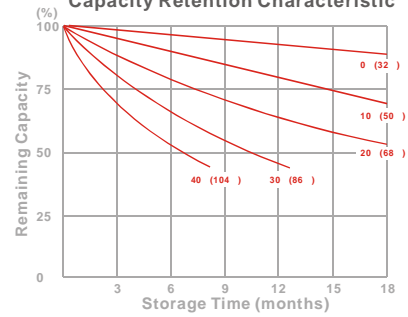
Effect of Temperature on Capacity 25 (77 )



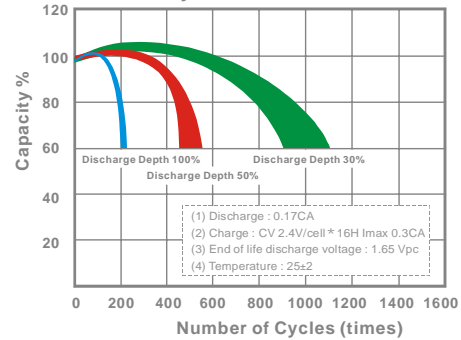
Trickle (or float) Service Life



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
5	min	3073	3629	4209	4498	4808	4967	5013
10	min	2520	2870	3215	3383	3561	3653	3720
15	min	2156	2404	2639	2752	2871	2933	3003
20	min	1934	2125	2298	2382	2469	2515	2584
30	min	1542	1658	1758	1805	1854	1881	1943
60	min	963	999	1023	1035	1046	1054	1099
90	min	790	834	846	854	858	860	871
120	min	637	670	680	687	690	692	700
180	min	450	471	478	483	485	487	492
240	min	352	368	373	377	379	380	383
300	min	290	302	307	310	311	312	315
480	min	197	205	208	210	211	212	213
600	min	176	182	184	186	187	187	189
1200	min	87.4	89.8	91.1	92.1	92.7	92.9	93.1

- 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
5	min	287	339	393	420	449	464	469
10	min	229	261	292	308	324	332	338
15	min	196	219	240	250	261	267	273
20	min	168	185	200	207	215	219	225
30	min	133	143	152	156	160	162	168
60	min	80.9	84.0	85.9	86.9	87.9	88.6	92.3
90	min	66.2	69.9	70.9	71.6	71.9	72.1	73.1
120	min	53.3	56.1	56.9	57.5	57.7	57.9	58.6
180	min	37.5	39.3	39.9	40.3	40.4	40.6	41.0
240	min	29.2	30.5	31.0	31.3	31.4	31.5	31.8
300	min	24.1	25.1	25.5	25.7	25.9	25.9	26.1
480	min	16.3	17.0	17.2	17.4	17.5	17.5	17.6
600	min	14.5	15.1	15.2	15.4	15.4	15.5	15.6
1200	min	7.23	7.42	7.54	7.62	7.67	7.68	7.70

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%)

260815-1E