

## 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. 46.2kg(102Lbs.)**

Internal Resistance (at 1KHz) **Approx. 4.7mΩ**

#### Maximum Discharge Current for

5 seconds: **1500A**

#### Charging Methods at 25°C (77°F)

##### Cycle use:

Charging Voltage **14.4 to 15.0V**

Coefficient **-5.0mV/°C/cell**

Maximum Charging Current : **45A**

##### Standby use:

Float Charging Voltage **13.5 to 13.8V**

Coefficient **-3.0mV/°C/cell**

#### Operating Temperature Range

Charge **-15°C (5°F) to 40°C (104°F)**

Discharge **-15°C (5°F) to 50°C (122°F)**

Storage **-15°C (5°F) to 40°C (104°F)**

Design Life **12 years**

#### Charge Retention (shelf life) at 20°C (68°F)

1 month **98%**

3 month **94%**

6 month **85%**

Case Material **ABS**

(UL94-V0 flame retardant case / cover )

Terminal **F18**

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

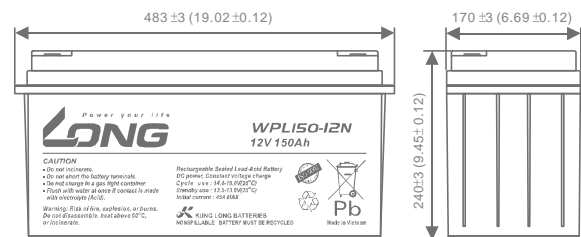
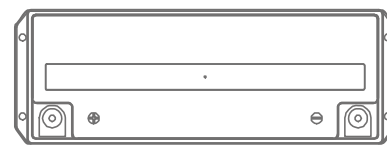
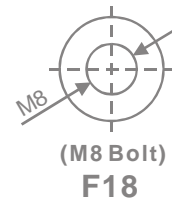
Recommended torque value **M8: 7.35 N-m (75kg-cm)**

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

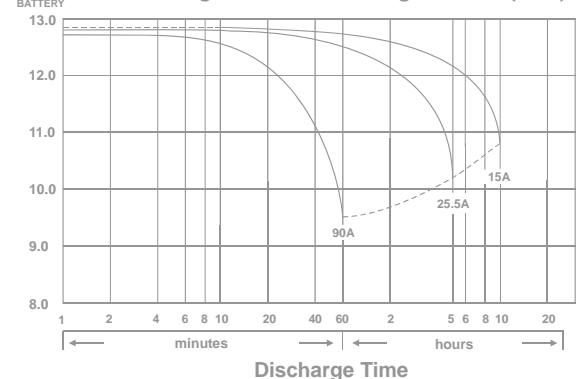


### Dimensions

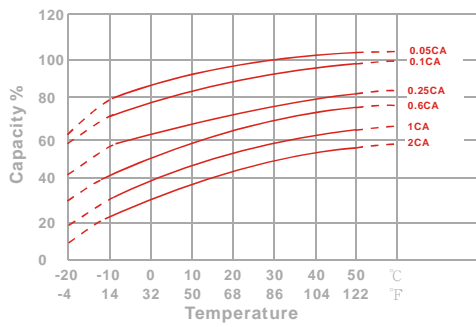
mm(inch)



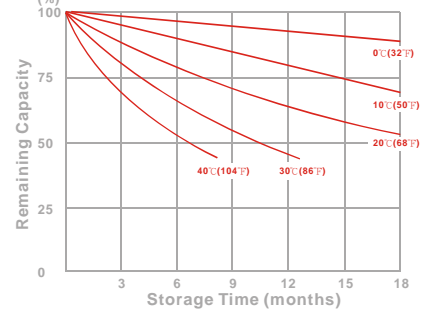
(V) FOR 12V BATTERY Discharge Time VS. Discharge Current (25°C)



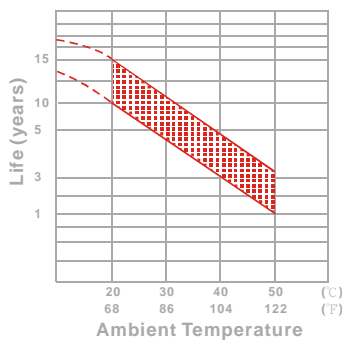
Effect of Temperature on Capacity 25°C (77°F)



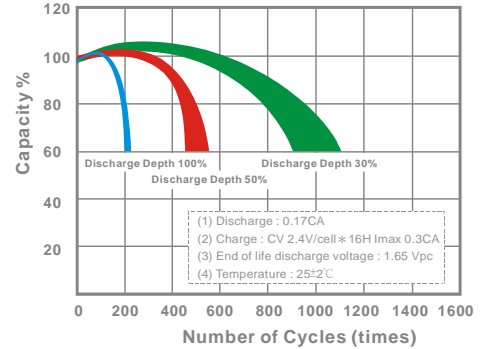
Capacity Retention Characteristic



Trickle (or float) Service Life



Cycle Service Life



## - PERFORMANCE DATA

### Discharge Rates in Watts to Various End Voltages at 25°C (77°F)

End Voltage		1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
Time								
5	min	4199	5000	5985	6612	6750	6925	7095
10	min	2837	3272	3770	4079	4148	4237	4323
15	min	2378	2692	3034	3243	3290	3352	3411
30	min	1605	1759	1909	1998	2020	2048	2076
60	min	1130	1195	1219	1246	1250	1262	1284
120	min	638	670	682	694	696	701	712
180	min	457	479	486	494	495	498	505
240	min	361	377	383	389	389	392	396
300	min	300	313	317	322	322	324	327
600	min	176	182	184	186	187	187	189
1200	min	95	98	99	100	100	100	100

### - Discharge Rates in Amperes to Various End Voltages at 25°C (77°F)

End Voltage		1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
Time								
5	min	385	459	549	607	619	635	651
10	min	253	292	337	364	370	378	386
15	min	209	236	266	284	289	294	299
30	min	137	150	163	171	173	175	177
60	min	95.0	100	102	105	105	106	108
120	min	53.4	56.1	57.0	58.1	58.3	58.7	59.6
180	min	38.1	39.9	40.5	41.2	41.3	41.5	42.1
240	min	30.0	31.3	31.7	32.3	32.3	32.5	32.9
300	min	24.9	26.0	26.3	26.7	26.7	26.9	27.2
600	min	14.5	15.1	15.2	15.4	15.4	15.5	15.6
1200	min	7.86	8.09	8.15	8.23	8.23	8.23	8.28

All data on the spec. sheet is an average value:

The tolerance range :  $X < 6\text{min}$  (+15%~-15%),  $6\text{min} \leq X < 10\text{min}$  (+12%~-12%),  $10\text{min} \leq X < 60\text{min}$  (+8%~-8%),  $X \geq 60\text{min}$  (+5%~-5%)

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