

## LG50-12-Z 12Volt 48Ah

### Specifications

Nominal Voltage(V) **12V**

#### Nominal Capacity

20 hour rate	(2.4A	to	10.50V)	<b>48Ah</b>
5 hour rate	(8.16A	to	10.20V)	<b>40.8Ah</b>
1 hour rate	(28.8A	to	9.60V)	<b>28.8Ah</b>
1 C	(48A	to	9.60V)	<b>25.6Ah</b>

The tolerance range :

$X < 6\text{min} (+15\% \sim -15\%)$ ,  $6\text{min} \leq X < 10\text{min} (+12\% \sim -12\%)$ ,  
 $10\text{min} \leq X < 60\text{min} (+8\% \sim -8\%)$ ,  $X \geq 60\text{min} (+5\% \sim -5\%)$

Weight **Approx. 14.5kg(31.9Lbs.)**

Internal Resistance (at 1KHz) **Approx. 6 mΩ**

#### Maximum Discharge Current for

5 seconds: **576A**

#### Charging Methods at 25°C (77°F)

Cycle use:

Charging Voltage **13.8 to 14.1V**

Coefficient **-5.0mv/°C/cell**

Maximum Charging Current : **14.4A**

Standby use:

Float Charging Voltage **13.50 to 13.80V**

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)**

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

1 month **98%**

3 month **94%**

6 month **85%**

Case Material **ABS**

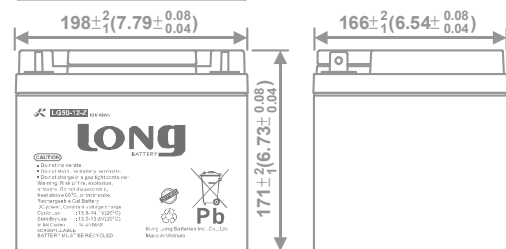
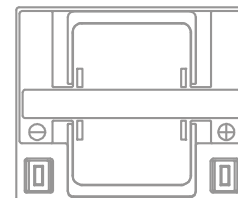
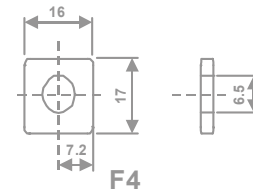
(Option: UL94 HB & UL94 V-0 flame retardant )

Terminal **F4**

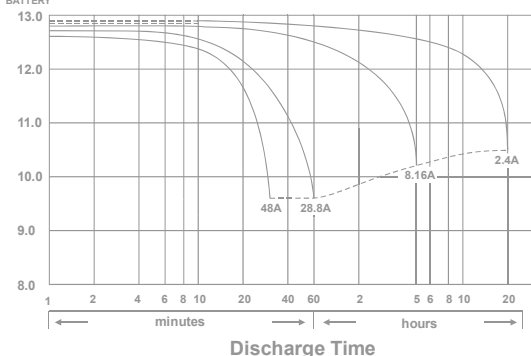


### Dimensions

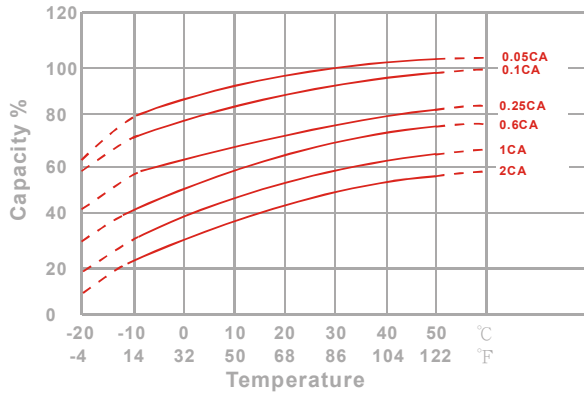
mm(inch)



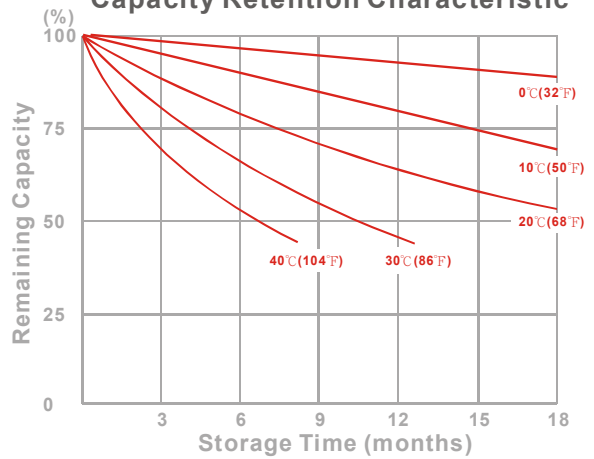
(V) FOR 12V BATTERY Discharge Time VS. Discharge Current (25°C)



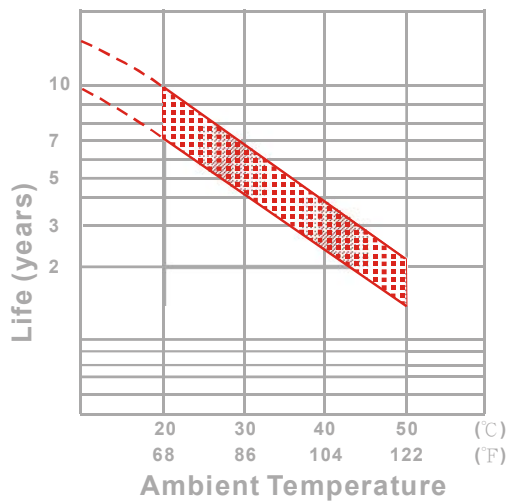
**Effect of Temperature on Capacity 25°C(77°F)**



**Capacity Retention Characteristic**



**Trickle (or float) Service Life**



**Cycle Service Life** Temperature: 20°C

