

## LG45-12 12Volt 45Ah

### Specifications

Nominal Voltage(V) **12V**

#### Nominal Capacity

20 hour rate	(2.25A to 10.50V)	<b>45Ah</b>
5 hour rate	(7.65A to 10.20V)	<b>38.25Ah</b>
1 hour rate	(24.75A to 9.60V)	<b>24.75Ah</b>
1 C	(45A to 9.60V)	<b>23.9Ah</b>

Weight **Approx. 15kg(33Lbs.)**

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

#### Maximum Discharge Current for

5 seconds: **540A**

#### Charging Methods at 25 (77 )

##### Cycle use:

Charging Voltage **13.8 to 14.4V**

Coefficient -5.0mv/ /cell

Maximum Charging Current : **13.5A**

##### Standby use:

Float Charging Voltage **13.50 to 13.80V**

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 **92%**

3 month **90%**

6 month **80%**

Case Material **ABS**

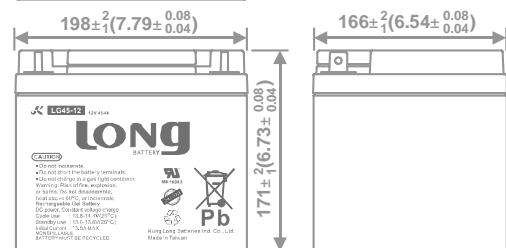
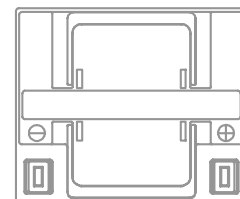
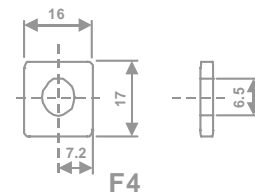
(Option: UL94 HB & UL94 V-0 flame retardant )

Terminal **F4**

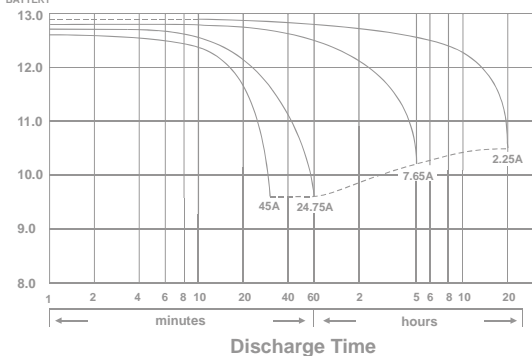


### Dimensions

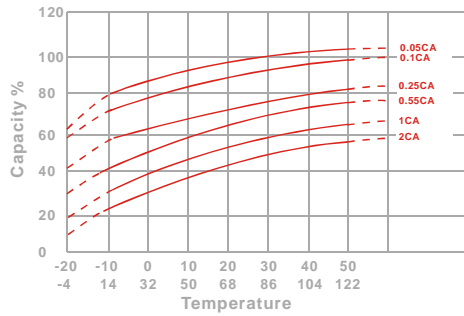
mm(inch)



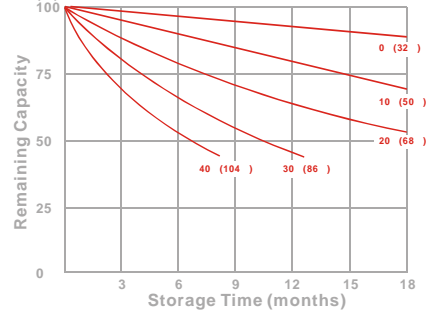
(V) FOR 12V BATTERY Discharge Time VS. Discharge Current (25 )



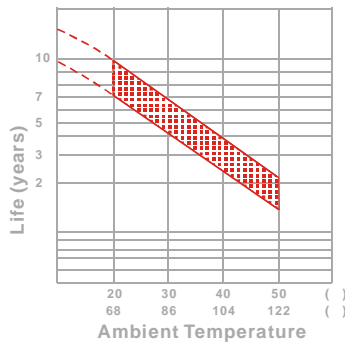
Effect of Temperature on Capacity 25 (77 )



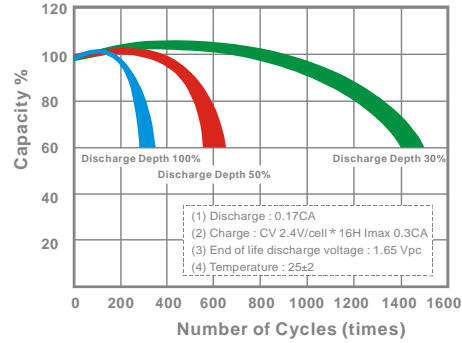
Capacity Retention Characteristic



Trickle (or float) Service Life



Cycle Service Life



**- PERFORMANCE DATA**

Discharge Rates in Watts to Various End Voltages at 25 (77 )

End Voltage		1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
Time								
5	min	1018	1323	1523	1639	1682	1736	1796
10	min	752	943	1080	1169	1208	1234	1254
15	min	670	781	852	893	905	914	925
30	min	372	429	469	490	496	503	510
60	min	251	273	287	298	302	307	312
120	min	136	149	158	165	167	170	173
180	min	110	119	126	131	133	135	137
240	min	94.5	99.1	103	106	107	108	109
300	min	82.3	87.3	90.3	92.5	93.4	94.4	95.2
600	min	48.4	51.4	53.1	54.4	55.0	55.5	56.0
1200	min	25.5	27.1	28.0	28.7	29.0	29.3	29.5

- Discharge Rates in Amperes to Various End Voltages at 25 (77 )

End Voltage		1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
Time								
5	min	90.4	122	144	158	163	169	178
10	min	65.8	83.4	96.1	105	108	111	114
15	min	57.5	67.7	74.6	79.1	80.1	81.5	82.6
30	min	31.7	37.3	41.1	43.6	44.2	45.0	45.8
60	min	23.1	24.5	25.4	26.0	26.2	26.5	26.7
120	min	12.3	13.1	13.6	14.0	14.1	14.3	14.5
180	min	9.48	10.2	10.7	11.0	11.1	11.3	11.4
240	min	7.87	8.35	8.64	8.85	8.94	9.02	9.10
300	min	6.83	7.25	7.50	7.68	7.75	7.83	7.90
600	min	4.02	4.24	4.39	4.51	4.56	4.60	4.65
1200	min	2.11	2.23	2.31	2.37	2.39	2.42	2.45

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%)