

LG40-12 12Volt 40Ah

Specifications

Nominal Voltage(V) 12V

Nominal Capacity

20 hour rate	(2A	to	10.50V)	40Ah
5 hour rate	(6.8A	to	10.20V)	34Ah
1 hour rate	(22A	to	9.60V)	22Ah
1 C	(40A	to	9.60V)	21.33Ah

Weight Approx. 13.3kg(29.3Lbs.)

Internal Resistance (at 1KHz) Approx. 8 mΩ

Maximum Discharge Current for

5 seconds: 480A

Charging Methods at 25°C (77°F)

Cycle use:

Charging Voltage 13.8 to 14.4V

Coefficient -5.0mV/°C/cell

Maximum Charging Current : 12A

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)

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

1 month 92%

3 month 90%

6 month 80%

Case Material ABS

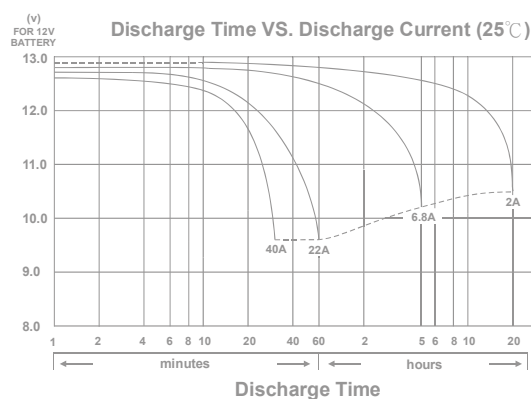
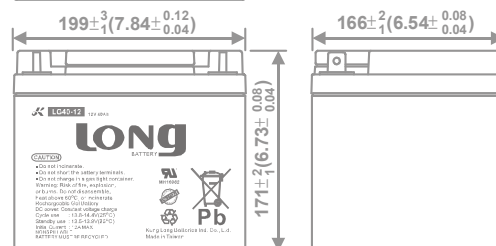
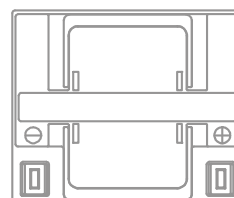
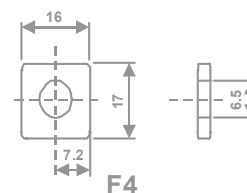
(Option: UL94 HB & UL94 V-0 flame retardant)

Terminal F4

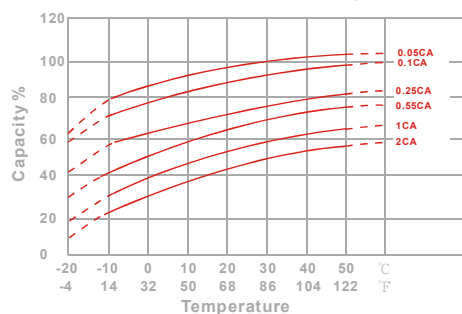


Dimensions

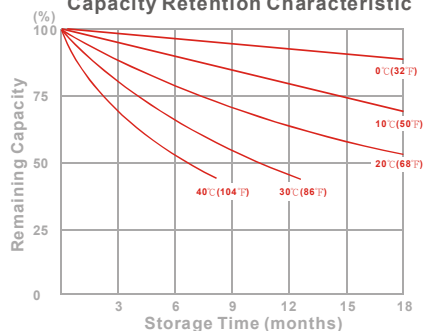
mm(inch)



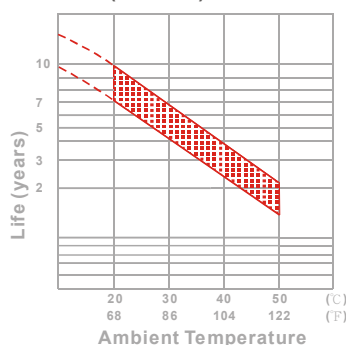
Effect of Temperature on Capacity 25°C(77°F)



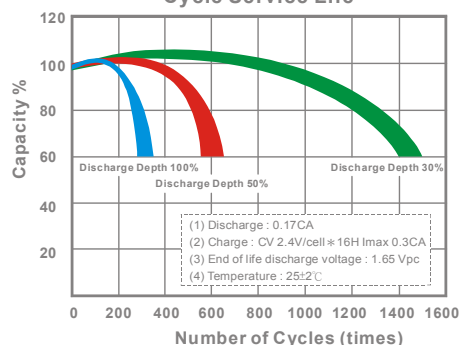
Capacity Retention Characteristic



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	1203	1443	1616	1727	1756	1788	1820
10	min	770	926	1038	1109	1126	1148	1168
15	min	597	702	775	822	834	848	864
30	min	319	374	413	438	445	452	459
60	min	247	256	262	267	269	271	274
120	min	146	151	154	157	158	160	162
180	min	106	110	113	115	116	117	118
240	min	83.8	86.1	87.8	89.3	89.8	90.3	91.4
300	min	76.5	78.6	80.1	81.4	82.0	82.5	81.7
600	min	40.8	42.0	43.2	44.4	44.9	45.5	46.4
1200	min	20.9	22.1	23.1	24.0	24.4	24.9	25.7

- 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	104	126	141	151	154	157	160
10	min	61.6	75.1	84.1	89.5	91.3	93.1	94.9
15	min	50.9	59.8	66.0	70.0	71.2	72.2	73.3
30	min	29.6	33.4	36.8	38.0	38.8	40.0	40.6
60	min	21.3	22.0	22.4	22.7	22.9	23.1	23.4
120	min	11.8	12.3	12.7	13.0	13.1	13.3	13.4
180	min	8.71	9.04	9.25	9.40	9.49	9.59	9.78
240	min	6.90	7.17	7.41	7.58	7.60	7.64	7.72
300	min	6.28	6.52	6.67	6.80	6.84	6.87	6.94
600	min	3.50	3.65	3.80	3.87	3.91	3.97	4.00
1200	min	1.84	1.92	2.00	2.04	2.06	2.09	2.11

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%)