

⚡ Specifications

Nominal Voltage(V)

12V

Nominal Capacity

10 hour rate	(10A	to	10.80V)	100Ah
5 hour rate	(17A	to	10.20V)	85Ah
1 hour rate	(60A	to	9.60V)	60Ah
1C	(100A	to	9.60V)	63.33Ah

Weight

Approx. 30.0kg(66.0Lbs.)

Internal Resistance (at 1KHz)

Approx. 5 mΩ

Maximum Discharge Current for

5 seconds:1200A

Charging Methods at 25°C(77°F)

Cycle use:

Charging Voltage 14.4 to 15.0V

Coefficient -5.0mV/°C/cell

Maximum Charging Current : 30A

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 98%

3 month 94%

6 month 85%

Case Material

ABS UL94 HB

Option: Flammability resistance of (UL94 V-0)

Design Life

12 Years.

Terminal

F8



⚡ Dimensions

Length (L)

307±3 (12.09±0.12)

Width (W)

168±3 (6.61±0.12)

Height (H)

208±3 (8.19±0.12)

Overall Height (HT)

214±3 (8.43±0.12)

Description of torque value of hard ware for the terminals:

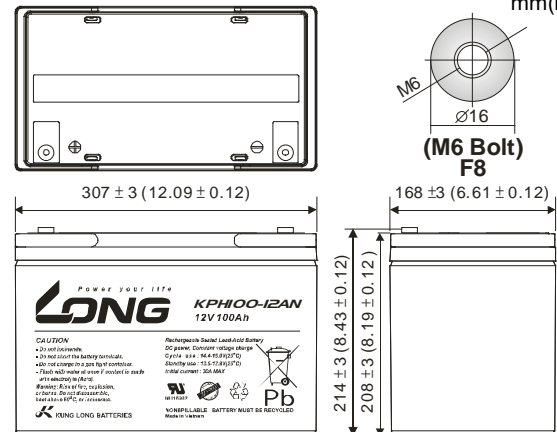
Recommended torque value

M6:7 N-m (71kgf-cm)

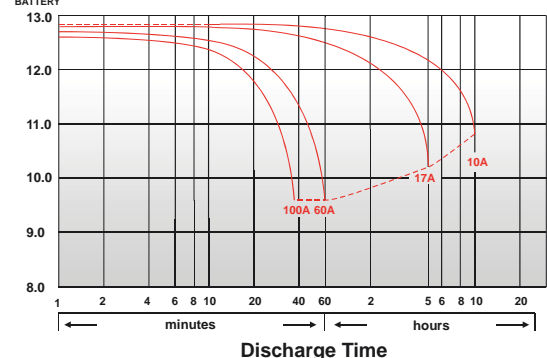
Maximum allowable torque value

M6:9 N-m (92kgf-cm)

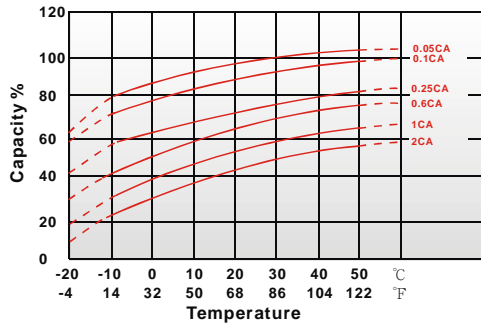
mm(inch)



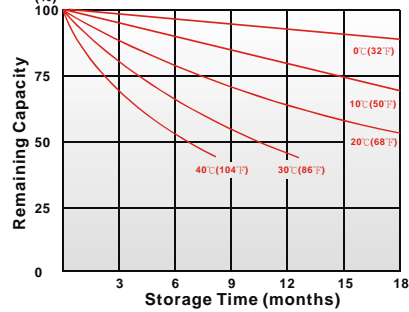
(V) FOR 12V BATTERY Discharge Time VS. Discharge Current (25°C)



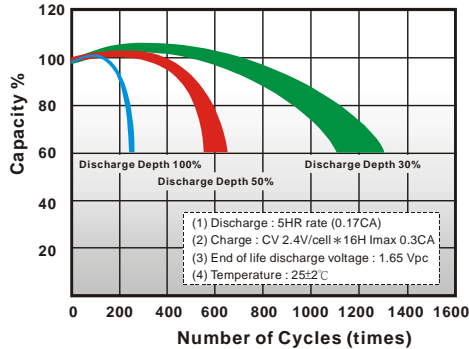
Effect of Temperature on Capacity 25°C(77°F)



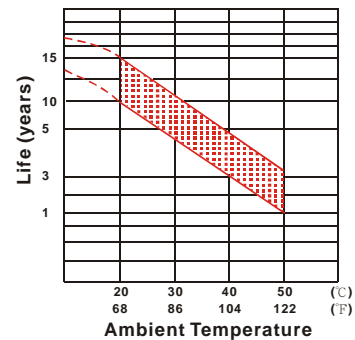
Capacity Retention Characteristic



Cycle Service Life



Trickle (or float) 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	min	432	491	527	561	577	598	625
5	min	402	436	463	488	497	510	521
10	min	310	345	373	385	389	395	403
15	min	218	235	248	252	254	255	257
30	min	130	136	140	142	143	144	145
60	min	68.3	71.6	74.2	74.9	75.6	76.4	77.0
120	min	52.6	54.5	55.5	56.6	57.1	57.8	58.8
180	min	35.1	36.8	39.2	41.2	41.8	42.6	43.2
240	min	33.8	35.0	36.7	37.1	37.2	37.4	37.7
300	min	18.9	19.6	19.9	20.2	20.3	20.5	20.7
600	min	10.3	10.6	10.9	11.1	11.2	11.3	11.4
1200	min							

- 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	min	236	261	300	320	341	356	375
5	min	195	218	239	256	262	271	286
10	min	174	189	202	210	213	216	221
15	min	115	123	129	132	133	134	136
30	min	63.2	65.50	67.5	69.6	70.5	71.5	73.3
60	min	36.2	37.5	38.1	38.7	38.9	39.2	39.5
120	min	27.9	28.9	29.4	29.8	30.0	30.2	30.4
180	min	18.4	19.2	20.1	20.3	20.4	20.5	20.7
240	min	16.8	17.6	18.4	18.6	18.7	18.8	19.0
300	min	9.7	10.0	10.2	10.4	10.5	10.6	10.7
600	min	5.07	5.22	5.36	5.39	5.40	5.42	5.44
1200	min							

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%)

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