

Specifications 規格書

Nominal Voltage(V)公稱電壓

2V

Nominal Capacity 公稱容量

10 hour rate	(10A to 1.80V)	100Ah
5 hour rate	(17A to 1.70V)	85Ah
1 hour rate	(60A to 1.60V)	60Ah
1 C	(100A to 1.60V)	50Ah

Weight 重量

Approx. 7.5kg(16.5Lbs.)

Internal Resistance (at 1KHz)電阻值

Approx. 1.4 mΩ

Maximum Discharge Current for 最大耐電流

5 seconds: 600A

Charging Methods at 25°C(77°F)充電條件

Cycle use:循環使用

Charging Voltage 充電電壓設定 2.33 to 2.36V

Coefficient -5.0mV/°C/cell 係數

Maximum Charging Current : 最大充電電流 30A

Standby use:待機備援

Float Charging Voltage 浮充電壓設定 2.21 to 2.25V

Coefficient -3.0mV/°C/cell 係數

Operating Temperature Range 電池使用環溫

Charge 充電 -15°C(5°F) to 40°C(104°F)

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

Storage 儲存 -15°C(5°F) to 40°C(104°F)

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

1 month	98%
3 month	94%
6 month	85%

Case Material 電池槽材質

ABS UL94 HB

Option: Flammability resistance of (UL94 V-0)

L.O.I ≥ .28%

Design Life 設計壽年

Expected Trickle Design Life: 15 years at 20°C according to Euroba

Terminal 端子型態

F18



Dimensions 尺寸

Length (L)長

170±3 (6.69±0.12)

Width (W)寬

72±3 (2.83±0.12)

Height (H)高

205±3 (8.07±0.12)

Overall Height (HT)

208±3 (8.19±0.12)

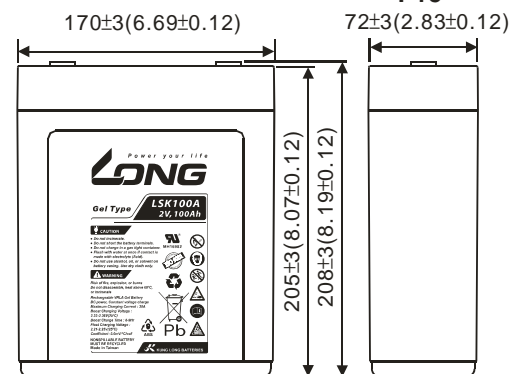
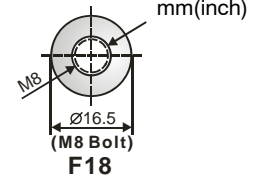
Description of torque value of hard ware for the terminals:

Recommended torque value

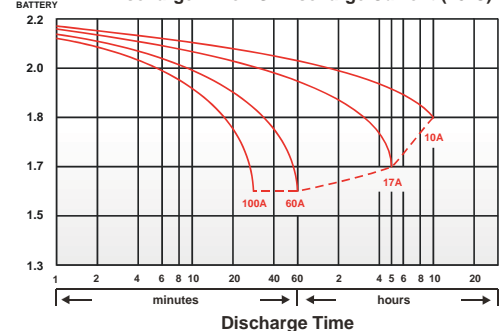
M8:12 N-m (122kgf-cm)

Maximum allowable torque value

M8:20 N-m (204kgf-cm)

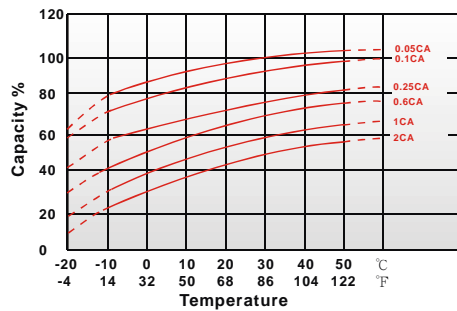


(V) FOR 2V BATTERY Discharge Time VS. Discharge Current (25°C)



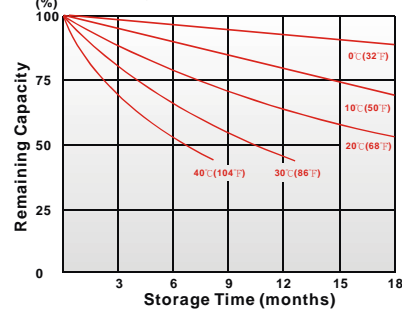
溫度與容量對照

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

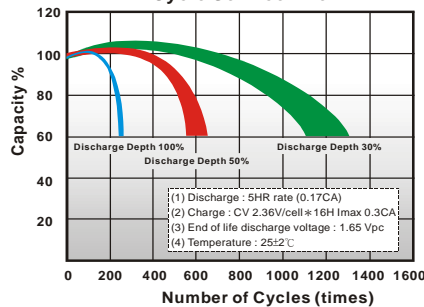


儲存與容量對照

Capacity Retention Characteristic

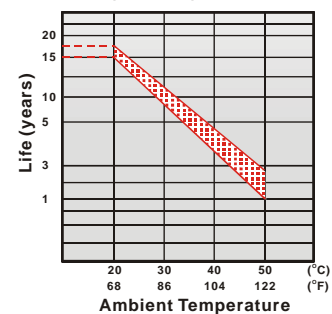


循環使用次數
Cycle Service Life



浮充設計壽命

Trickle (or float) Service Life



- PERFORMANCE DATA 實績

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

End Voltage		1.85V	1.80V	1.75V	1.70V	1.65V	1.60V
Time							
20	min	155	177	196	211	223	232
30	min	143	163	175	185	192	198
60	min	101	108	113	118	121	124
120	min	59.1	62.8	66.0	69.0	71.6	74.1
180	min	42.4	45.8	48.5	50.9	55.2	57.2
240	min	37.1	39.8	42.2	44.2	45.6	46.8
300	min	32.8	34.7	36.3	38.0	39.2	40.1
360	min	30.5	31.7	32.7	33.5	34.3	35.1
480	min	23.9	24.9	25.7	26.5	27.2	27.8
600	min	20.1	20.8	21.4	22.1	22.6	23.0
1200	min	10.0	10.6	11.1	11.7	12.1	12.3

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

End Voltage		1.85V	1.80V	1.75V	1.70V	1.65V	1.60V
Time							
20	min	81.9	94.5	105	114	122	127
30	min	76.8	86.5	92.3	97.4	102	105
60	min	46.8	52.7	56.2	58.9	61.1	63.0
120	min	28.1	31.2	33.4	35.3	36.6	37.7
180	min	22.9	24.2	25.3	26.2	27.1	27.9
240	min	18.1	19.1	20.0	20.8	21.5	22.1
300	min	15.6	16.4	17.1	17.7	18.3	18.8
360	min	13.6	14.3	14.9	15.5	16.0	16.4
480	min	11.1	11.6	12.0	12.3	12.7	13.0
600	min	9.64	10.0	10.3	10.5	10.7	10.9
1200	min	4.90	5.13	5.33	5.51	5.64	5.73

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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