

### ⚡ Specifications

#### Nominal Voltage(V)

2V

#### Nominal Capacity at 20°C(68°F)

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

#### Weight

Approx. 6.8kg(14.96Lbs.)

#### Internal Resistance (at 1KHz) at 25°C(77°F)

≤ 0.85mΩ

#### Maximum Discharge Current for

5 seconds: 600A

#### Maximum Short circuit current (IEC 60896)

1600A

#### Charging Methods at 25°C(77°F)

Cycle use:

Charging Voltage 2.35 to 2.40V

Coefficient -5.0mV/°C/cell

Maximum Charging Current : 30A

Standby use:

Float Charging Voltage 2.25 to 2.30V

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	88%

#### Case Material

ABS UL94 HB

Option: Flammability resistance of (UL94 V-0)

#### Design Life

Expected Trickle Design Life: 12-15 years at 20°C according to Eurobat.

#### Terminal

F18

#### Battery Construction

Positive Plate	Negative plate	Electrolyte	Terminal	Safety valve	Separator
Lead dioxide	Lead	Sulfuric acid	Copper	Rubber	AGM



### ⚡ Dimensions

#### Length (L)

170±3 (6.69±0.12)

#### Width (W)

72±3 (2.83±0.12)

#### Height (H)

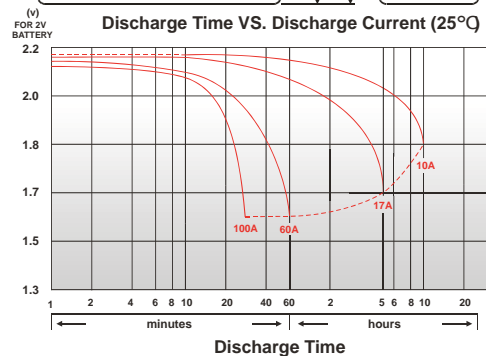
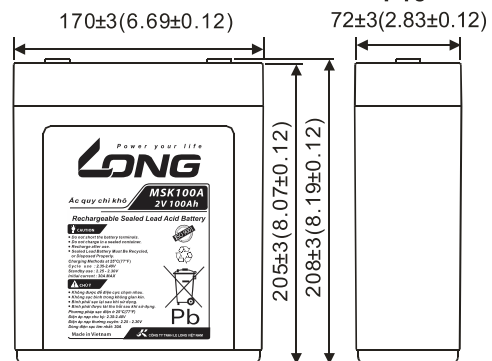
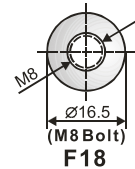
205±3 (8.07±0.12)

#### Overall Height (HT)

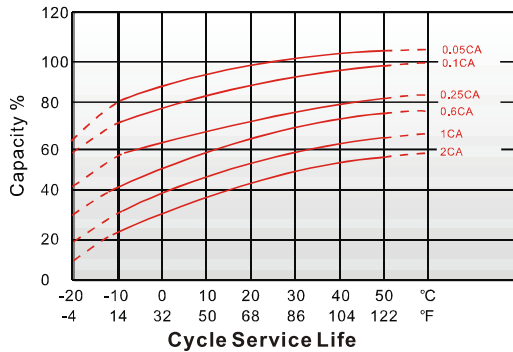
208±3 (8.19±0.12)

#### Description of torque value of hard ware for the terminals:

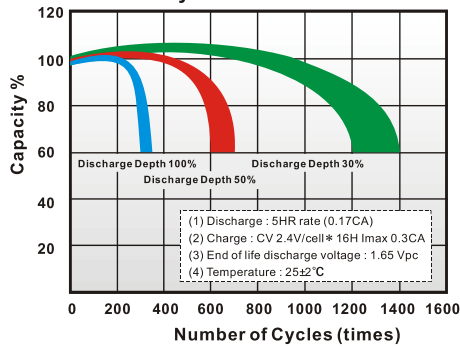
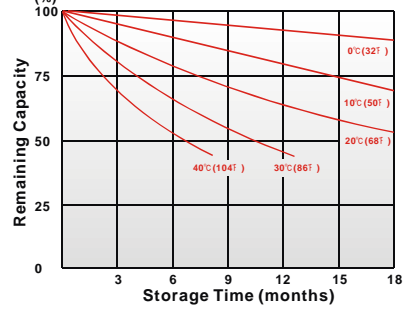
Recommended torque value M8:12 N-m (122kgf-cm)  
 Maximum allowable torque value M8:20 N-m (204kgf-cm)  
 mm(inch)



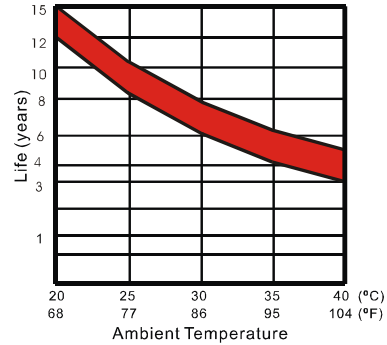
Effect of Temperature on Capacity 25°C(77°F)



Capacity Retention Characteristic



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	1.65V	1.60V
Time	min						
10	min	330	346	361	376	386	391
20	min	155	177	196	211	223	232
30	min	165	180	190	195	198	200
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)

End Voltage		1.85V	1.80V	1.75V	1.70V	1.65V	1.60V
Time	min						
10	min	156	167	177	187	192	197
20	min	81.9	94.5	105	114	122	127
30	min	80.2	91.0	100	104	107	110
60	min	50.1	53.2	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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