

### ⚡ Specifications

#### Nominal Voltage(V)

2V

#### Nominal Capacity at 20°C (68°F)

10 hour rate	(30A	to	1.80V)	300Ah
5 hour rate	(51A	to	1.70V)	255Ah
1 hour rate	(180A	to	1.60V)	180Ah
1C	(300A	to	1.60V)	150Ah

#### Weight

Approx. 21.2kg(46.64Lbs.)

#### Internal Resistance (at 1KHz)

Approx. 0.5 mΩ

#### Maximum Discharge Current for

5 seconds: 1800A

#### Charging Methods at 25°C(77°F)

Cycle use:

Charging Voltage 2.33 to 2.36V

Coefficient -5.0mV/°C/cell

Maximum Charging Current : 90A

Standby use:

Float Charging Voltage 2.21 to 2.25V

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

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

#### Terminal

F18



### ⚡ Dimensions

#### Length (L)

170±3 (6.69±0.12)

#### Width (W)

150±3 (5.91±0.12)

#### Height (H)

333±3 (13.11±0.12)

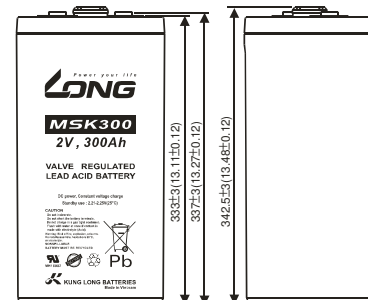
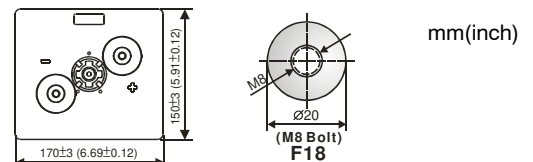
#### Overall Height (HT)

342.5±3 (13.48±0.12)

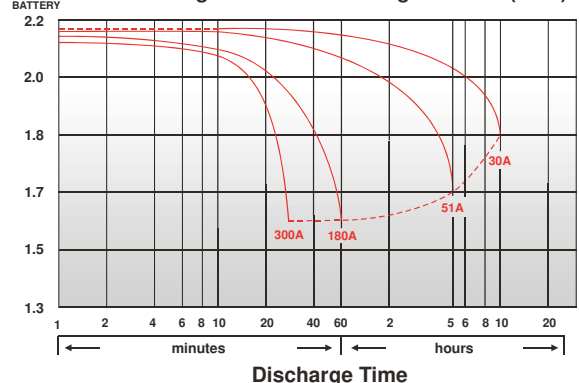
#### Description of torque value of hard ware for the terminals:

Recommended torque value M8:12 N·m (122kgf·cm)

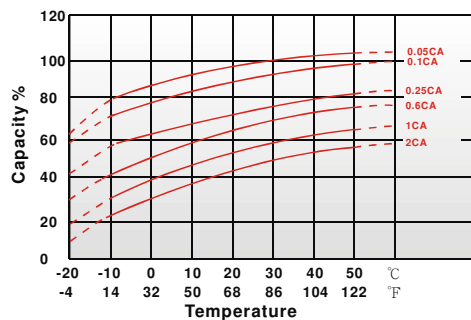
Maximum allowable torque value M8:20 N·m (204kgf·cm)



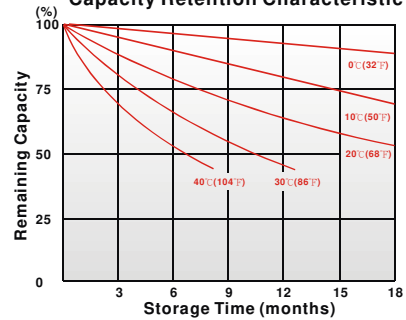
(V) FOR 2V BATTERY Discharge Time VS. Discharge Current (25°C)



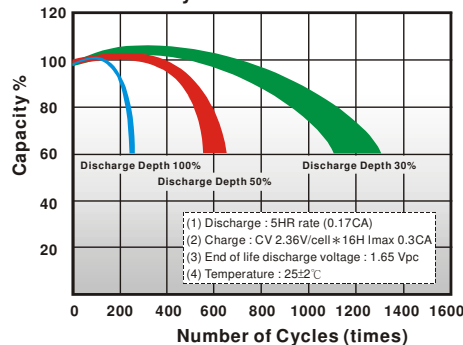
Effect of Temperature on Capacity 25°C (77°F)



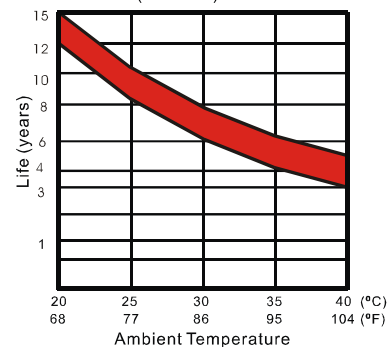
Capacity Retention Characteristic



Cycle Service Life



Trickle (or float) Service Life



### - PERFORMANCE DATA

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

Time		End Voltage	1.85V	1.80V	1.75V	1.70V	1.65V	1.60V
20	min		516	578	613	644	671	692
30	min		483	514	538	556	573	586
60	min		272	297	316	332	345	354
120	min		167	178	188	197	205	211
180	min		127	136	144	151	158	163
240	min		108	115	120	125	129	132
300	min		95.7	101	105	109	112	114
360	min		84.7	89.4	92.6	95.2	97.1	98.6
480	min		67.6	70.9	73.5	75.7	77.3	78.4
600	min		56.7	59.6	61.8	63.6	64.9	65.7
1200	min		30.2	31.5	32.4	33.2	34.0	34.5

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

Time		End Voltage	1.85V	1.80V	1.75V	1.70V	1.65V	1.60V
20	min		246	288	317	345	368	381
30	min		218	251	276	299	317	325
60	min		135	152	165	176	183	189
120	min		92.9	97.3	102	106	110	113
180	min		68.5	73.2	76.1	78.8	81.4	83.8
240	min		54.1	57.7	60.3	62.5	64.6	66.4
300	min		46.6	49.5	51.6	53.4	55.1	56.5
360	min		40.2	42.6	44.7	46.6	48.1	49.2
480	min		33.4	35.1	36.3	37.4	38.2	39.0
600	min		29.1	30.2	31.1	31.8	32.4	32.9
1200	min		14.9	15.6	16.1	16.6	17.0	17.3

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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