

MSK 400 2Volt 400Ah

Specifications

Nominal Voltage(V) **2V**

Nominal Capacity

10 hour rate	(40A to 1.80V)	400Ah
5 hour rate	(68A to 1.70V)	340Ah
1 hour rate	(240A to 1.60V)	240Ah
1C	(400A to 1.60V)	200Ah

Weight **Approx. 28kg(61.6Lbs.)**

Internal Resistance (at 1 KHz) **Approx. 0.45 mΩ**

Maximum Discharge Current for

5 seconds: **2000A**

Charging Methods at 25°C (77°F)

Cycle use:

Charging Voltage **2.33 to 2.36V**

Coefficient **-5.0mv/°C/cell**

Maximum Charging Current : **120A**

Standby use:

Float Charging Voltage **2.21 to 2.25V**

Coefficient **-3.0mv/°C/cell**

Life Expectancy:

Cycle Use:

100% depth of discharge **225 cycles**

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

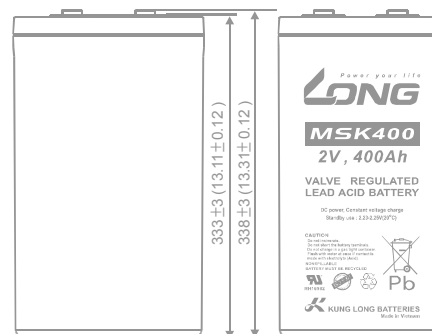
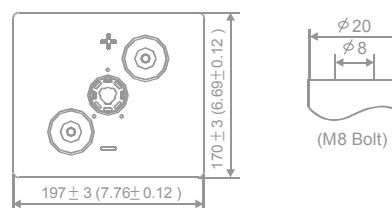
ABS

(Option: UL94-V0 flame retardant case / cover)

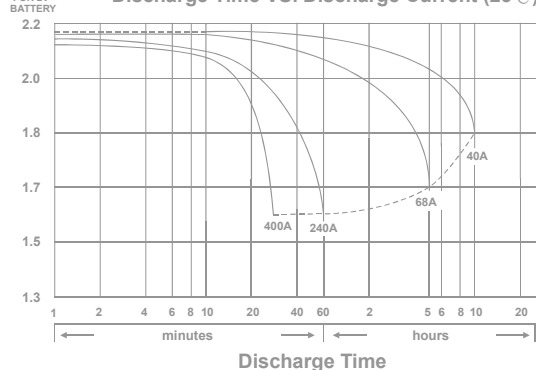


Dimensions

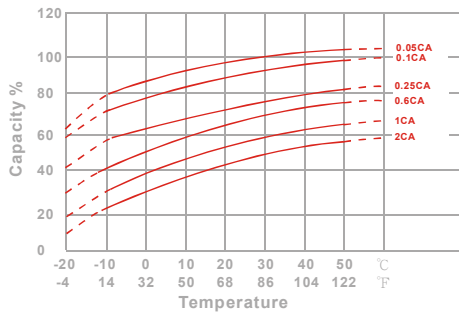
mm(inch)



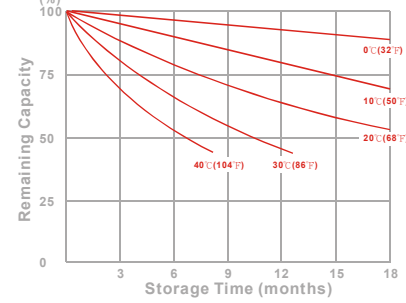
(V) FOR 2V BATTERY Discharge Time VS. Discharge Current (25°C)



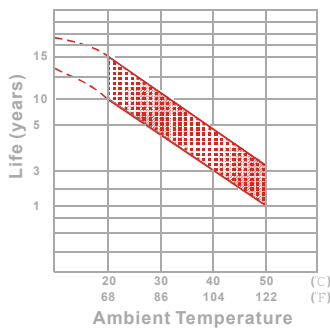
Effect of Temperature on Capacity 25°C(77°F)



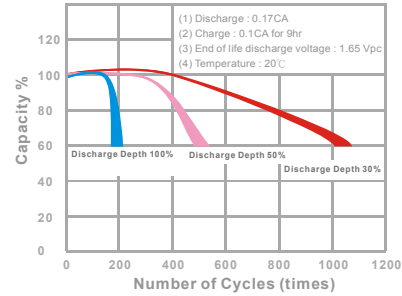
Capacity Retention Characteristic



Trickle (or float) Service Life



Cycle Service Life



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%)

- PERFORMANCE DATA

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

Time	End Voltage	1.80V	1.67V	1.6V
20	min	696	864	884
30	min	589	656	797
60	min	403	471	474
120	min	255	280	285
180	min	192	210	214
300	min	132	144	145
480	min	95.9	101	103
600	min	79.5	86.3	87.3

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

Time	End Voltage	1.80V	1.67V	1.6V
20	min	440	488	508
30	min	292	422	434
60	min	205	242	252
120	min	127	143	151
180	min	96.1	106	112
300	min	64.9	72.7	75.3
480	min	46.5	50.1	51.9
600	min	40.9	43.1	43.9