

MSK75 2Volt 75Ah

Specifications

Nominal Voltage(V) **2V**

Nominal Capacity

10 hour rate	(7.5A	to	1.80V)	75Ah
5 hour rate	(12.75A	to	1.70V)	63.75Ah
1 hour rate	(45A	to	1.60V)	45Ah
1C	(75A	to	1.60V)	37.5Ah

Weight **Approx. 6.4kg(14.08Lbs.)**

Internal Resistance (at 1 KHz) **Approx. 1.5 mΩ**

Maximum Discharge Current for
5 seconds: **450A**

Charging Methods at 25 (77)

Cycle use:

Charging Voltage **2.40 to 2.50V**
Coefficient -5.0mv/ /cell
Maximum Charging Current : **22.5A**

Standby use:

Float Charging Voltage **2.25 to 2.30V**
Coefficient -3.0mv/ /cell

Design Life **12 years**

Operating Temperature Range

Charge	-15 (5)	to	40 (104)
Discharge	-15 (5)	to	50 (122)
Storage	-15 (5)	to	40 (104)

Charge Retention (shelf life) at 20 (68)

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

Case Material **ABS**

(UL94-V0 flame retardant case / cover)

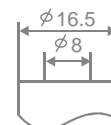
Description of torque value of hard ware for the terminals:

Recommended torque value **M8: 7.35 N-m (75kg-cm)**
Maximum allowable torque value **M8: 9.8 N-m (100kg-cm)**

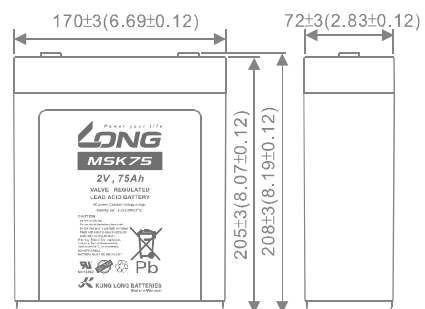


Dimensions

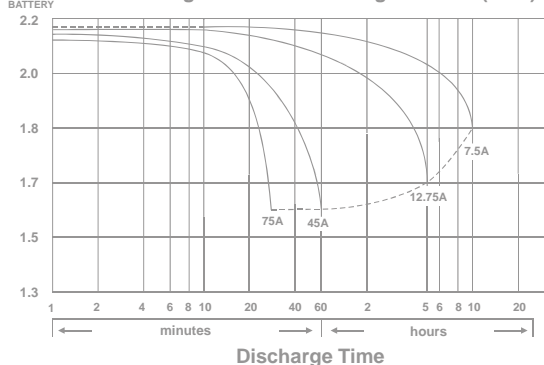
mm(inch)



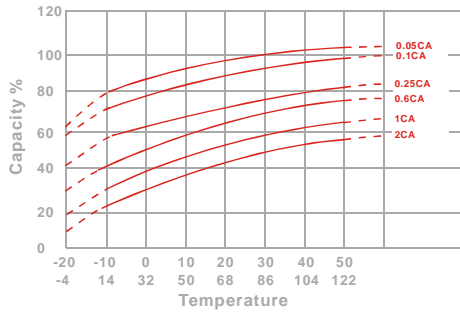
(M8 Bolt)



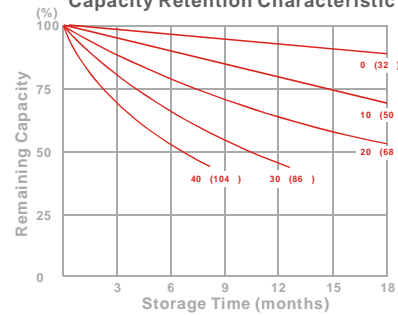
(V) FOR 2V BATTERY Discharge Time VS. Discharge Current (25)



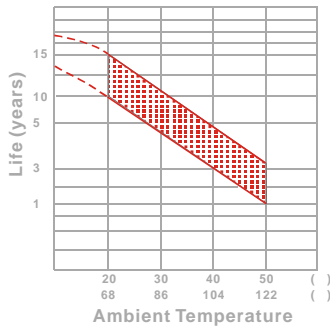
Effect of Temperature on Capacity 25 (77)



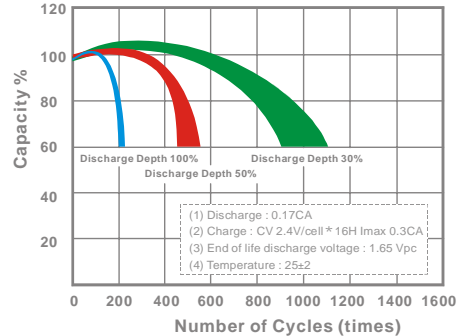
Capacity Retention Characteristic



Trickle (or float) Service Life



Cycle Service Life



- PERFORMANCE DATA

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

End Voltage		1.85V	1.80V	1.75V	1.70V	1.65V	1.60V
Time							
20	min	119	134	147	157	165	173
30	min	109	123	132	139	145	148
60	min	74.2	80.6	83.6	85.8	88.6	90.6
120	min	45.1	48.1	50.9	53.1	55.0	56.5
180	min	35.0	37.2	39.1	40.9	42.2	43.4
240	min	29.3	31.4	32.7	33.8	34.9	35.9
300	min	24.0	25.3	26.4	27.6	28.5	29.3
360	min	21.0	22.2	23.0	23.8	24.5	25.3
480	min	16.3	17.2	17.9	18.5	19.0	19.6
600	min	14.4	15.0	15.5	16.0	16.4	16.7
1200	min	7.42	7.79	8.12	8.44	8.75	8.90

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

End Voltage		1.85V	1.80V	1.75V	1.70V	1.65V	1.60V
Time							
20	min	70.9	78.5	84.7	89.3	92.7	95.4
30	min	61.6	66.2	69.8	72.2	74.3	76.0
60	min	35.7	39.4	42.8	44.7	46.4	47.5
120	min	22.1	24.2	25.9	27.2	28.2	29.0
180	min	16.2	17.8	19.1	20.1	20.9	21.5
240	min	13.3	14.4	15.3	16.1	16.7	17.1
300	min	11.8	12.7	13.3	13.8	14.1	14.4
360	min	10.9	11.5	11.9	12.2	12.4	12.6
480	min	8.59	8.97	9.29	9.48	9.65	9.78
600	min	7.31	7.55	7.74	7.91	8.03	8.12
1200	min	3.69	3.84	3.96	4.08	4.17	4.23

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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