

⚡ Specifications

Nominal Voltage(V)

12V

Nominal Capacity

10 hour rate	(7.5A to 10.80V)	75Ah
5 hour rate	(12.75A to 10.20V)	63.75Ah
1 hour rate	(45A to 9.60V)	45Ah
1 C	(75A to 9.60V)	47.5Ah

Weight

Approx. 24.4kg(53.68Lbs.)

Internal Resistance (at 1KHz)

Approx. 5.5 mΩ

Maximum Discharge Current for

5 seconds: 900A

Charging Methods at 25°C(77°F)

Cycle use:	
Charging Voltage	14.4 to 15.0V
Coefficient -5.0mV/°C/cell	
Maximum Charging Current :	22.5A
Standby use:	
Float Charging Voltage	13.5 to 13.8V
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)

Terminal

F8



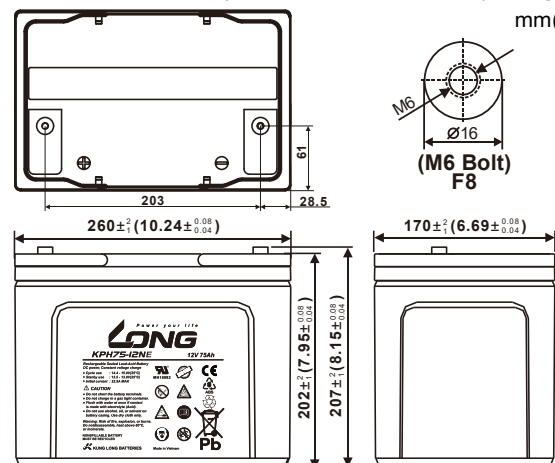
⚡ Dimensions

Length (L)	260± ² (10.24± ^{0.08} _{0.04})
Width (W)	170± ² (6.69± ^{0.08} _{0.04})
Height (H)	202± ² (7.95± ^{0.08} _{0.04})
Overall Height (HT)	207± ² (8.15± ^{0.08} _{0.04})

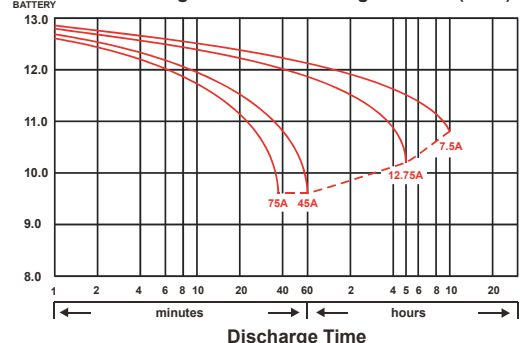
Description of torque value of hardware for the terminals:

Recommended torque value	M6: 7 N-m (71 kgf-cm)
Maximum allowable torque value	M6: 10 N-m (102 kgf-cm)

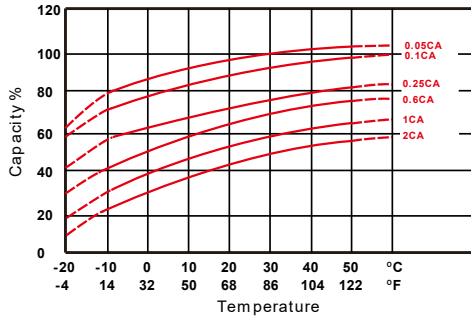
mm(inch)



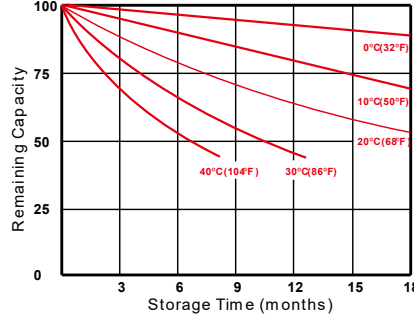
(v) FOR 12V BATTERY Discharge Time VS. Discharge Current (25°C)



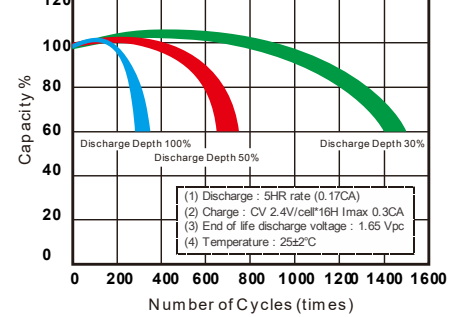
Effect of Temperature on Capacity 25°C(77°F)



Capacity Retention Characteristic



Cycle 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	1.67V	1.65V	1.60V
10	min	335	363	386	400	406	413	417
15	min	260	272	279	285	289	293	296
30	min	161	171	177	180	183	185	186
60	min	88.8	89.9	90.7	91.1	91.3	91.5	91.6
120	min	51.9	53.8	55.3	55.6	55.8	55.9	56.1
180	min	36.1	36.5	36.9	37.1	37.3	37.4	37.5
240	min	28.5	29.2	29.6	29.9	30.1	30.3	30.4
300	min	23.3	23.8	24.1	24.3	24.5	24.6	24.7
480	min	15.6	15.9	16.1	16.2	16.2	16.3	16.3
600	min	13.3	13.7	14.0	14.2	14.3	14.4	14.4
1200	min	7.35	7.43	7.48	7.51	7.52	7.54	7.55

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

End Voltage		1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
10	min	173	198	214	222	227	231	233
15	min	135	147	155	160	163	166	167
30	min	79.1	88.2	93	95	96	97	98
60	min	46.5	48.7	50.2	50.8	51.1	51.4	51.6
120	min	25.7	27.8	29.2	29.6	29.8	30.0	30.1
180	min	18.5	19.1	19.5	19.8	20.0	20.1	20.2
240	min	14.3	15.0	15.7	15.9	16.0	16.1	16.2
300	min	11.4	12.1	12.6	12.9	13.1	13.1	13.2
480	min	8.10	8.45	8.74	8.77	8.79	8.80	8.81
600	min	6.84	7.51	7.54	7.56	7.57	7.58	7.59
1200	min	3.56	3.78	3.81	3.83	3.84	3.85	3.86

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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