

⚡ Specifications

Nominal Voltage(V)

12V

Nominal Capacity

20 hour rate	(1.7A	to	10.50V)	34Ah
10 hour rate	(3.23A	to	10.50V)	32.3Ah
5 hour rate	(5.78A	to	10.20V)	28.9Ah
1 C	(34A	to	9.60V)	19.27Ah
3 C	(102A	to	9.60V)	13.6Ah

Weight

Approx. 10.3kg(22.7Lbs.)

Internal Resistance (at 1KHz)

Approx. 6 mΩ

Maximum Discharge Current for

5 seconds: 510A

Charging Methods at 25°C(77°F)

Cycle use:	
Charging Voltage	14.4 to 15.0V
Coefficient	-5.0mV/°C/cell
Maximum Charging Current :	10.2A
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	92%
3 month	90%
6 month	80%

Case Material

ABS UL94 HB
Option: Flammability resistance of (UL94 V-0)

Design Life

3-5 Years.

Terminal

F6



⚡ Dimensions

Length (L) 197±2-1 (7.76±0.08-0.04)

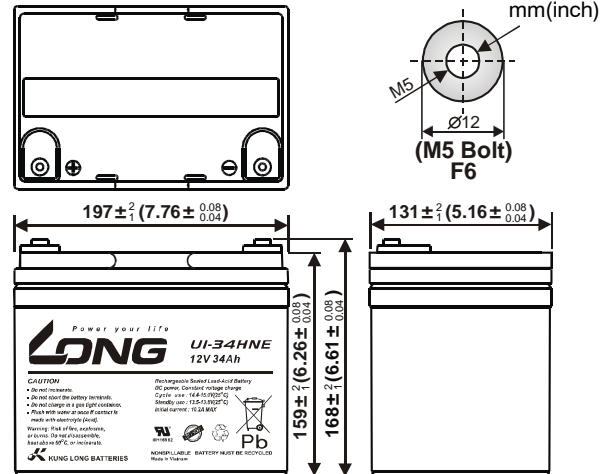
Width (W) 131±2-1 (5.16±0.08-0.04)

Height (H) 159±2-1 (6.26±0.08-0.04)

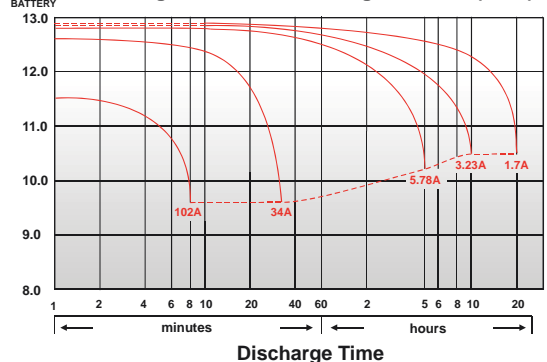
Overall Height (HT) 168±2-1 (6.61±0.08-0.04)

Description of torque value of hard ware for the terminals:

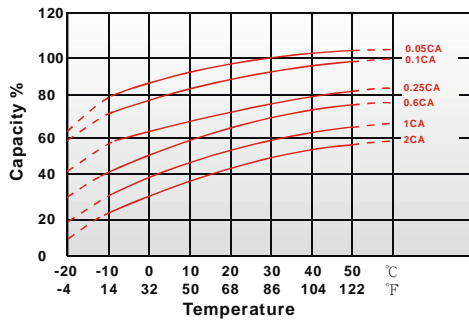
Recommended torque value M5: 4 N-m (41kgf-cm)
Maximum allowable torque value M5: 6 N-m (61kgf-cm)



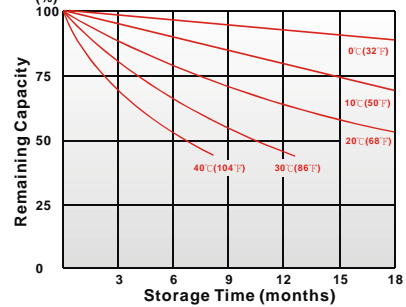
(V) FOR 12V BATTERY Discharge Time VS. Discharge Current (25°C)



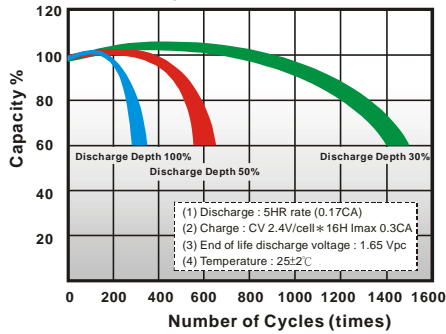
Effect of Temperature on Capacity 25°C (77°F)



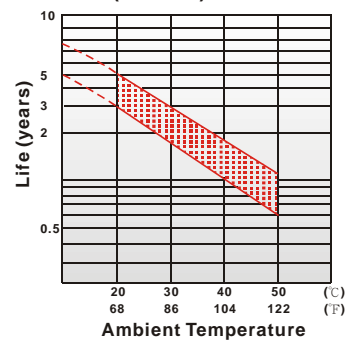
Capacity Retention Characteristic



Cycle Service Life



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	1.67V	1.65V	1.60V
Time	min	116	158	188	208	215	222	231
5	min	82.3	109	129	141	145	150	155
10	min	67.9	88.2	103	113	115	119	123
15	min	36.4	47.5	55.7	60.8	62.4	64.4	66.6
30	min	30.7	34.8	37.0	38.5	39.0	39.5	40.0
60	min	19.2	21.0	22.5	23.7	24.0	24.5	24.8
120	min	14.6	15.6	16.3	16.7	16.8	17.0	17.2
180	min	12.1	12.8	13.3	13.6	13.8	13.9	14.0
240	min	10.5	11.2	11.6	11.9	12.0	12.1	12.2
300	min	6.27	6.67	6.93	7.07	7.13	7.20	7.27
600	min	3.32	3.50	3.65	3.72	3.75	3.78	3.82
1200	min							

- 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
Time	min	84.0	104	119	127	130	134	138
5	min	59.2	68.9	74.9	79.1	80.8	83.3	86.4
10	min	46.5	53.8	58.5	61.1	61.9	62.9	64.2
15	min	27.8	31.7	33.2	34.5	34.9	35.4	36.0
30	min	16.9	18.2	19.1	19.8	20.0	20.3	20.6
60	min	10.2	11.0	11.5	11.9	12.0	12.2	12.4
120	min	7.26	7.85	8.31	8.47	8.53	8.62	8.76
180	min	5.68	6.14	6.51	6.69	6.74	6.81	6.91
240	min	5.31	5.59	5.76	5.89	5.94	6.01	6.08
300	min	3.11	3.23	3.34	3.42	3.45	3.48	3.52
600	min	1.62	1.70	1.75	1.79	1.80	1.82	1.84
1200	min							

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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