

⚡ Specifications

Nominal Voltage(V)

12V

Nominal Capacity

20 hour rate	(1A	to	10.50V)	20Ah
10 hour rate	(1.9A	to	10.50V)	19Ah
5 hour rate	(3.4A	to	10.20V)	17Ah
1 C	(20A	to	9.60V)	11.33Ah
3 C	(60A	to	9.60V)	8Ah

Weight

Approx. 5.95kg(13.09Lbs.)

Internal Resistance (at 1KHz)

Approx. 10 mΩ

Maximum Discharge Current for

5 seconds: 300A

Charging Methods at 25°C(77°F)

Cycle use:	
Charging Voltage	14.4 to 15.0V
Coefficient	-5.0mV/°C/cell
Maximum Charging Current :	6A
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

F3



⚡ Dimensions

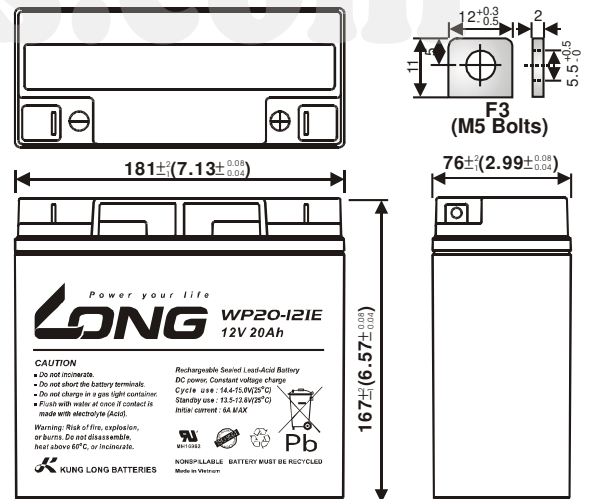
Length (L) 181±2-1 (7.13±0.08-0.04)

Width (W) 76±2-1 (2.99±0.08-0.04)

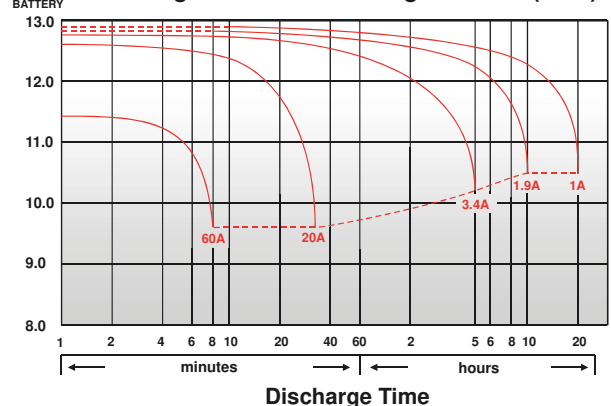
Height (H) 167±2-1 (6.57±0.08-0.04)

Overall Height (HT) 167±2-1 (6.57±0.08-0.04)

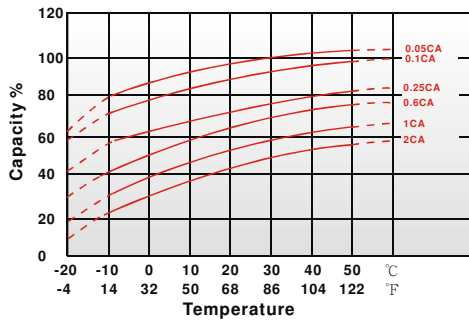
mm(inch)



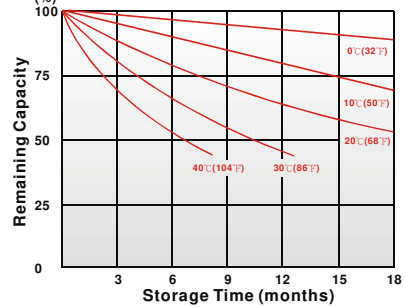
(v) FOR 12V BATTERY **Discharge Time VS. Discharge Current (25°C)**



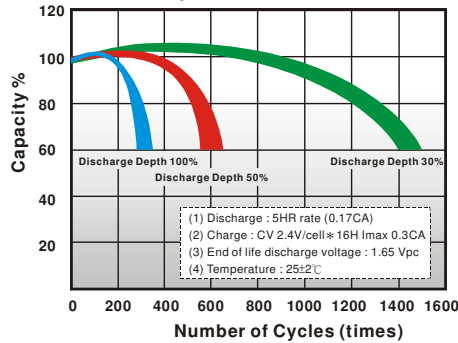
Effect of Temperature on Capacity 25°C(77°F)



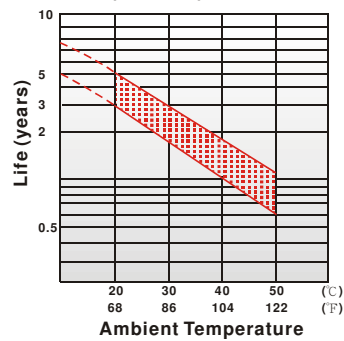
Capacity Retention Characteristic



Cycle Service Life



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								
5	min	108	125	136	143	145	147	149
10	min	77.1	87.0	94.3	98.7	99.8	101	102
15	min	64.5	72.2	78.8	81.8	82.6	83.5	84.4
30	min	34.8	37.2	39.8	41.3	41.8	42.3	42.7
60	min	22.2	23.2	24.0	24.7	24.8	25.2	25.5
120	min	12.2	12.7	13.0	13.5	13.6	13.7	13.8
180	min	9.53	9.88	10.1	10.3	10.4	10.5	10.6
240	min	7.63	7.93	8.12	8.27	8.32	8.38	8.46
300	min	6.65	6.88	7.00	7.10	7.13	7.18	7.24
600	min	3.87	3.98	4.07	4.13	4.15	4.19	4.22
1200	min	2.05	2.12	2.17	2.20	2.22	2.23	2.25

- 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								
5	min	68.2	73.9	77.5	80.7	82.0	83.4	85.8
10	min	45.8	48.9	51.4	53.5	54.4	55.4	57.0
15	min	34.7	37.3	39.0	40.5	41.1	41.7	42.6
30	min	18.5	20.0	21.1	22.0	22.2	22.6	23.2
60	min	11.1	11.7	12.2	12.6	12.7	12.9	13.1
120	min	6.25	6.47	6.61	6.73	6.77	6.82	6.89
180	min	4.73	4.90	5.00	5.08	5.11	5.15	5.21
240	min	3.88	3.97	4.04	4.09	4.11	4.14	4.17
300	min	3.41	3.48	3.53	3.57	3.58	3.60	3.62
600	min	1.97	2.00	2.02	2.04	2.05	2.06	2.07
1200	min	1.00	1.03	1.05	1.07	1.08	1.09	1.10

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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