

WP18-12 12Volt 18Ah

Specifications

Nominal Voltage(V) **12V**

Nominal Capacity

20 hour rate	(0.9A)	to	10.50V	18Ah
10 hour rate	(1.71A)	to	10.50V	17.1Ah
5 hour rate	(3.06A)	to	10.20V	15.3Ah
1 C	(18A)	to	9.60V	10.2Ah
3 C	(54A)	to	9.60V	7.2Ah

Weight **Approx. 6.3kg(13.86Lbs.)**

Internal Resistance (at 1KHz) **Approx. 10 mΩ**

Maximum Discharge Current for

5 seconds: **327A**

Charging Methods at 25°C (77°F)

Cycle use:

Charging Voltage **14.4 to 15.0V**

Coefficient **-5.0mV/°C/cell**

Maximum Charging Current : **5.4A**

Standby use:

Float Charging Voltage **13.50 to 13.80V**

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**

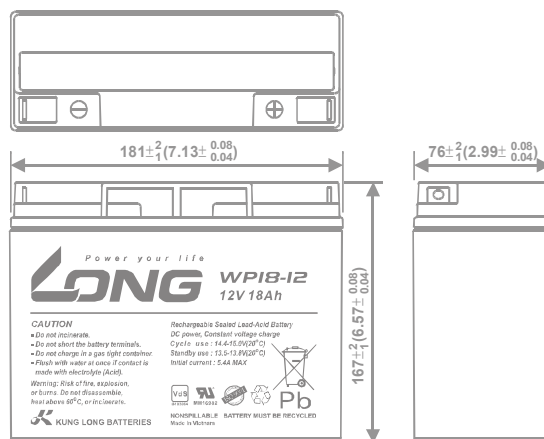
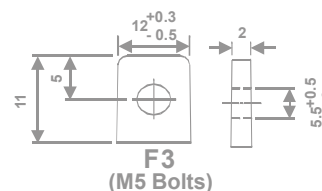
(Option: UL94 HB & UL94 V-0 flame retardant)

Terminal **F3**

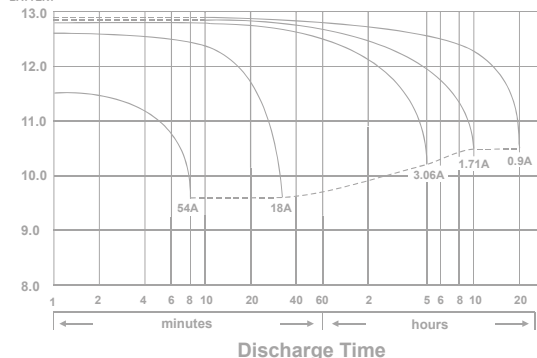


Dimensions

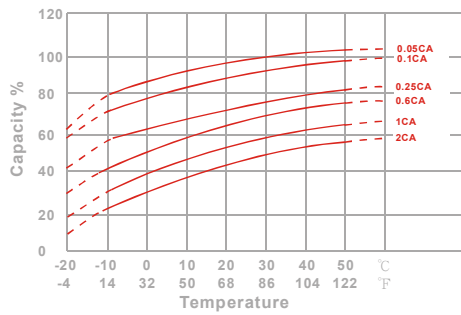
mm(inch)



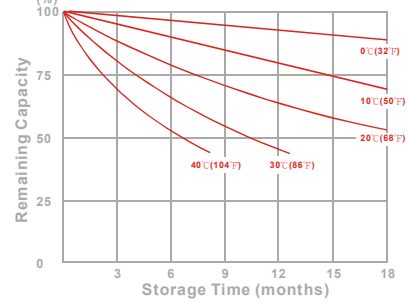
(V) FOR 12V BATTERY Discharge Time VS. Discharge Current (25°C)



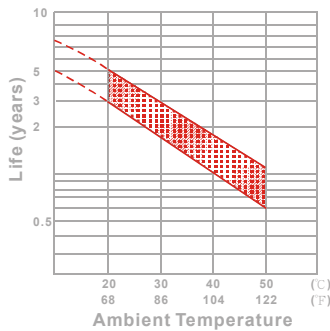
Effect of Temperature on Capacity 25°C(77°F)



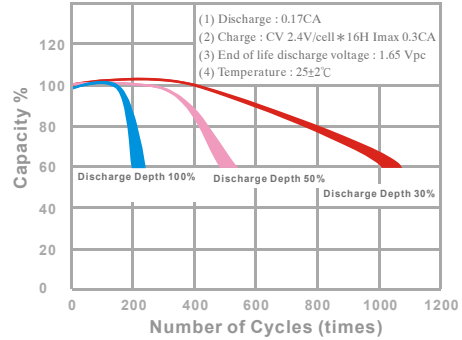
Capacity Retention Characteristic



Trickle (or float) Service Life



Cycle Service Life



- PERFORMANCE DATA

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

End Voltage		11.10V	10.80V	10.50V	10.20V	9.90V	9.60V
Time							
5	min	766	866	926	952	964	968
10	min	491	556	594	611	618	621
15	min	411	459	487	499	505	507
30	min	218	244	259	266	269	270
60	min	128	131	133	134	136	136
120	min	67.3	69.0	70.0	70.7	71.4	71.8
180	min	53.6	55.0	55.8	56.4	56.9	57.2
240	min	43.1	44.2	44.8	45.3	45.7	46.0
300	min	36.6	37.5	38.1	38.5	38.9	39.1
600	min	21.6	22.2	22.5	22.7	23.0	23.1
1200	min	11.4	11.7	11.8	12.0	12.1	12.1

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

End Voltage		11.10V	10.80V	10.50V	10.20V	9.90V	9.60V
Time							
5	min	68.4	77.3	82.7	85.0	86.0	86.4
10	min	42.7	48.3	51.7	53.1	53.8	54.0
15	min	35.0	39.0	41.5	42.5	43.0	43.2
30	min	18.4	20.5	21.8	22.3	22.6	22.7
60	min	10.7	10.9	11.1	11.2	11.3	11.4
120	min	5.61	5.75	5.84	5.89	5.95	5.98
180	min	4.45	4.56	4.63	4.68	4.72	4.75
240	min	3.56	3.65	3.71	3.74	3.78	3.80
300	min	3.03	3.10	3.15	3.18	3.21	3.23
600	min	1.78	1.82	1.85	1.87	1.89	1.90
1200	min	0.94	0.96	0.98	0.98	0.99	1.00

All data on the spec. sheet is an average value:

The tolerance range : $X < 6\text{min}$ (+15%~-15%), $6\text{min} \leq X < 60\text{min}$ (+12%~-12%), $10\text{min} \leq X < 60\text{min}$ (+8%~-8%), $X \geq 60\text{min}$ (+5%~-5%)