

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: **270A**

Charging Methods at 25 (77)

Cycle use:

Charging Voltage **14.4 to 15.0V**

Coefficient -5.0mV/ /cell

Maximum Charging Current : **5.4A**

Standby use:

Float Charging Voltage **13.5 to 13.8V**

Coefficient -3.0mV/ /cell

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 **92%**

3 month **90%**

6 month **80%**

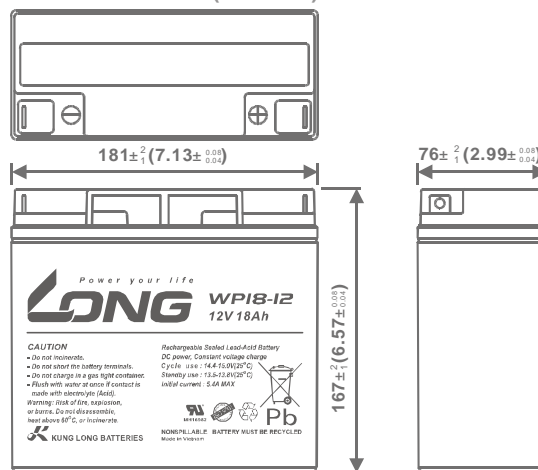
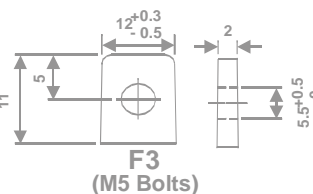
Case Material **ABS UL94 HB**

Option: Flammability resistance of (UL94 V-0)

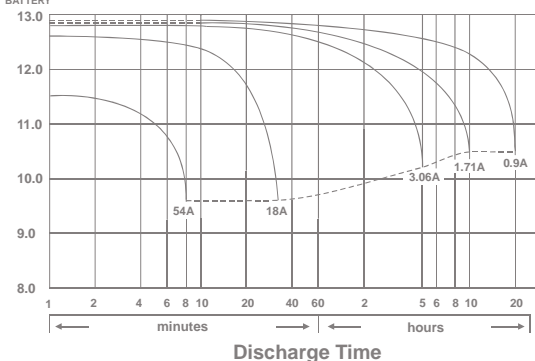
Terminal **F3**



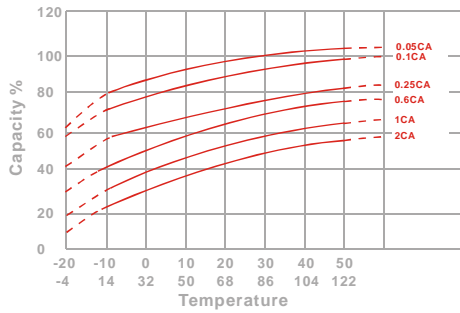
Dimensions mm(inch)



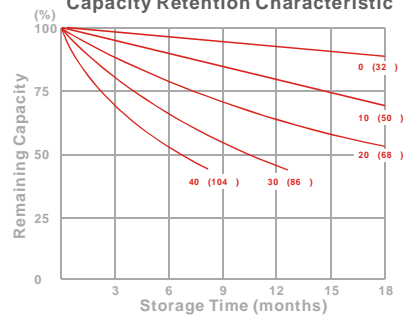
(v) Discharge Time VS. Discharge Current (25)
FOR 12V BATTERY



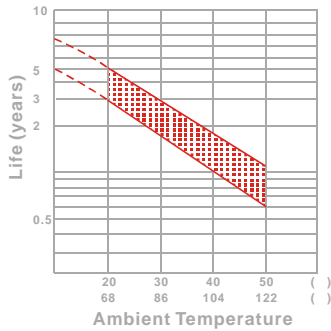
Effect of Temperature on Capacity 25 (77)



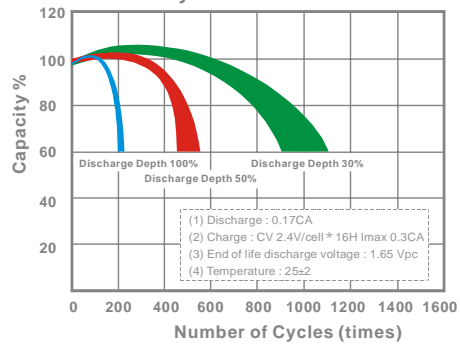
Capacity Retention Characteristic



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	1.67V	1.65V	1.60V
Time								
5	min	101	118	130	137	139	141	143
10	min	70.7	80.8	88.2	92.7	93.8	95.4	96.6
15	min	61.2	68.5	73.4	76.5	77.3	78.2	79.1
30	min	33.2	35.6	38.2	39.9	40.3	40.8	41.3
60	min	20.3	21.3	22.2	22.8	23.0	23.3	23.7
120	min	11.7	12.3	12.6	13.0	13.1	13.2	13.4
180	min	8.73	9.08	9.32	9.52	9.58	9.67	9.76
240	min	6.87	7.17	7.35	7.50	7.55	7.62	7.70
300	min	5.95	6.18	6.30	6.40	6.43	6.48	6.54
600	min	3.55	3.67	3.75	3.82	3.83	3.87	3.90
1200	min	1.83	1.90	1.95	1.98	2.00	2.02	2.03

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

End Voltage		1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
Time								
5	min	67.0	72.7	76.3	79.5	80.8	82.2	84.6
10	min	40.6	43.8	46.3	48.5	49.4	50.4	52.1
15	min	33.6	36.3	38.0	39.5	40.1	40.8	41.7
30	min	17.6	19.1	20.2	21.1	21.4	21.8	22.3
60	min	10.2	10.8	11.3	11.7	11.8	12.0	12.2
120	min	6.01	6.23	6.37	6.49	6.53	6.58	6.65
180	min	4.34	4.51	4.61	4.69	4.72	4.76	4.82
240	min	3.51	3.60	3.67	3.72	3.74	3.77	3.80
300	min	3.02	3.09	3.14	3.18	3.19	3.21	3.23
600	min	1.76	1.81	1.85	1.88	1.89	1.90	1.91
1200	min	0.939	0.958	0.973	0.984	0.987	0.991	0.995

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%)

031016-11

Contents in this data sheet are subject to change for improvement without prior notice to users. For clarifications and updated information, please contact us.