



RECHARGEABLE SEALED LEAD ACID BATTERY

Revision 1.2



WP12-12B

Specifications

Nominal Voltage (V)	12V
Nominal Capacity	
20hour rate (0.6A to 10.50V)	12Ah
10hour rate (1.2A to 10.50V)	11.4Ah
5hour rate (2.04A to 10.20V)	10.2Ah
1C (12A to 9.60V)	6.40Ah
3C (36A to 9.60V)	4.20Ah

Weight Approx.3.82kg(8.40Lbs.)

Internal Resistance (at 1KHz) 13 mΩ

Maximum Discharge Current for 5 seconds : 135A

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%

Charging Methods at 20°C (68°F)

Cycle use:

Charging Voltage 14.4 to 15.0V
Maximum Charging Current : 3.6A

Standby use :

Float Charging Voltage 13.50 to 13.80V

Life expectancy :

Cycle Use :

100% depth of discharge 200 cycles
80% depth of discharge 225 cycles
50% depth of discharge 500 cycles

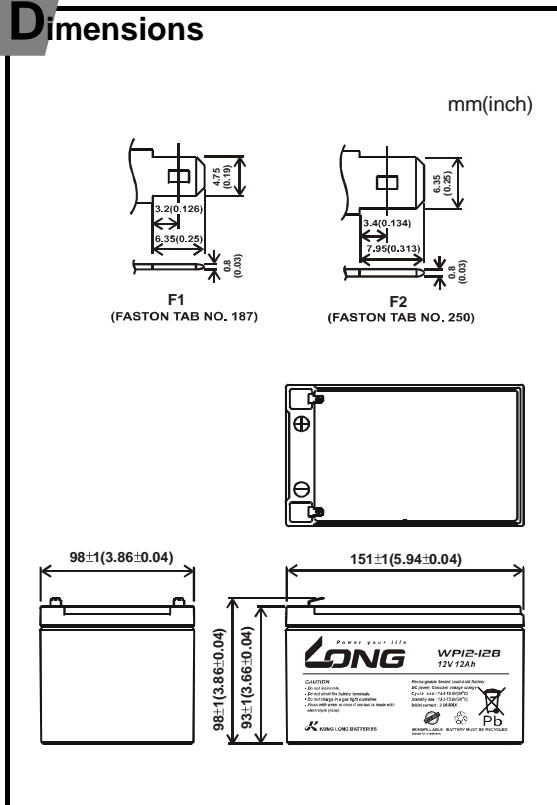
Standby Use : 3~5years

Case Material ABS

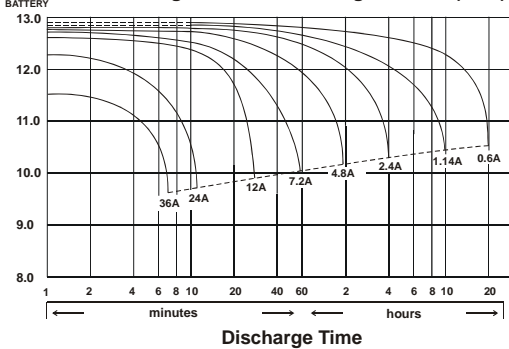
(Option : 94-HB & 94V-0 flame retardant case)

Terminal F1 or F2

Dimensions



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





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

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

PERFORMANCE DATA

Discharge Rates in Watts to Various End Voltages at 25°C

End Voltage		11.10V	10.80V	10.50V	10.20V	9.90V	9.60V
Time							
5	min	386	459	507	535	546	554
10	min	287	323	347	361	367	371
15	min	221	245	261	269	273	276
30	min	137	149	157	161	164	165
60	min	79.2	81.4	82.8	83.7	84.6	86.5
120	min	45.8	48.5	50.0	50.8	51.3	51.8
180	min	33.6	34.0	34.5	35.0	35.4	35.9
240	min	26.4	27.6	28.2	28.5	28.8	29.0
300	min	22.2	23.1	23.5	23.6	23.9	24.0
600	min	13.3	13.6	13.8	14.0	14.3	14.4
1200	min	6.79	6.90	6.90	7.02	7.02	7.13

Discharge Rates in Amperes to Various End Voltages at 25°C

End Voltage		11.10V	10.80V	10.50V	10.20V	9.90V	9.60V
Time							
5	min	33.6	39.9	44.0	46.5	47.5	48.2
10	min	24.9	28.1	30.2	31.4	31.9	32.2
15	min	19.2	21.3	22.7	23.4	23.8	24.0
30	min	11.9	13.0	13.7	14.0	14.2	14.4
60	min	6.89	7.08	7.20	7.28	7.36	7.52
120	min	3.98	4.22	4.35	4.42	4.47	4.50
180	min	2.92	2.96	3.00	3.04	3.08	3.12
240	min	2.30	2.40	2.45	2.48	2.51	2.52
300	min	1.93	2.00	2.04	2.05	2.08	2.09
600	min	1.16	1.18	1.20	1.22	1.24	1.25
1200	min	0.59	0.60	0.60	0.61	0.61	0.62