



# RECHARGEABLE SEALED LEAD ACID BATTERY

Revision 1.1



## WP7-12(28W)

### Specifications

**Nominal Voltage (V)** 12V

#### Nominal Capacity

15min rate ( 168W	to	9.60V )	42Wh
5hour rate ( 1.1A	to	10.20V )	5.5Ah
1C ( 6.5A	to	9.60V )	3.9Ah
3C (19.5A	to	9.60V )	2.6Ah

**Weight** Approx. 2.1kg(4.62Lbs.)

**Internal Resistance (at 1KHz)** 19 mΩ

**Maximum Discharge Current for 5 seconds :** 135A

#### Operating Temperature Range

Charge	0°C (32°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 : 1.95A

##### 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

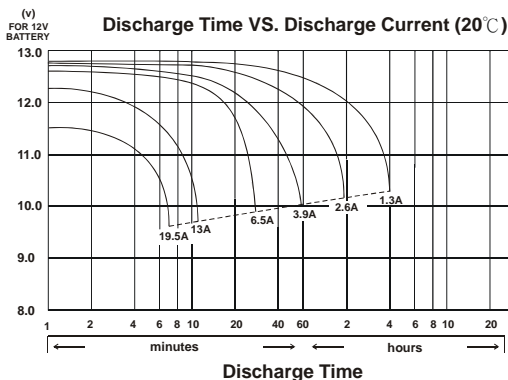
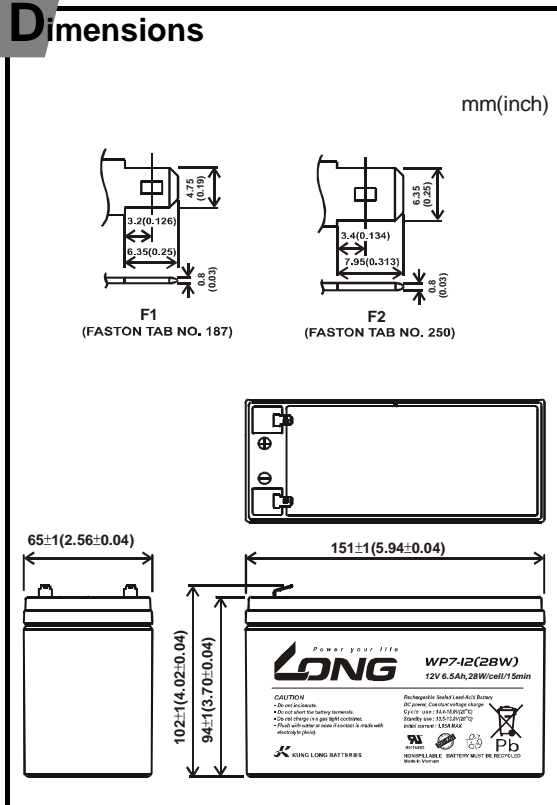
ABS

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

#### Terminal

F1 or F2

### Dimensions





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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 Time	11.10V	10.80V	10.50V	10.20V	9.90V	9.60V
5 min	235	263	286	304	315	325
10 min	174	188	200	209	215	219
15 min	143	153	160	164	166	168
30 min	93.4	97.5	100	102	102	103
60 min	55.4	57.4	58.4	59.0	59.3	59.5
120 min	31.8	32.8	33.2	33.4	33.6	33.7
180 min	22.8	23.4	23.7	23.9	24.0	24.0
240 min	17.9	18.4	18.7	18.8	18.8	18.9
300 min	14.8	15.2	15.4	15.5	15.5	15.6
600 min	8.06	8.30	8.40	8.45	8.48	8.50
1200 min	4.25	4.38	4.43	4.45	4.47	4.48

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

End Voltage Time	11.10V	10.80V	10.50V	10.20V	9.90V	9.60V
5 min	19.1	21.9	25.2	28.1	30.4	32.1
10 min	14.2	15.2	17.2	18.2	19.2	19.8
15 min	11.0	11.9	12.9	13.6	14.1	14.5
30 min	7.82	8.15	8.40	8.58	8.71	8.81
60 min	4.68	4.87	4.97	5.03	5.07	5.09
120 min	2.62	2.72	2.77	2.79	2.81	2.82
180 min	1.85	1.91	1.95	1.96	1.97	1.98
240 min	1.45	1.49	1.52	1.53	1.53	1.54
300 min	1.15	1.16	1.17	1.19	1.21	1.22
600 min	0.65	0.66	0.67	0.68	0.69	0.70
1200 min	0.34	0.34	0.35	0.35	0.36	0.36

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