Power your life

RECHARGEABLE SEALED LEAD ACID BATTERY

Supplier of Energy

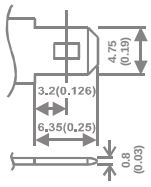
WP1224W 12Volt 24W



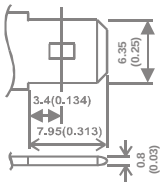
Specifications

Nominal Voltage(V)	**12V**
Nominal Capacity	
15 min rate (144W to 9.60V)	**36Wh**
20 hour rate (0.3A to 10.50V)	**6Ah**
10 hour rate (0.57A to 10.50V)	**5.7Ah**
5 hour rate (1.02A to 10.20V)	**5.1Ah**
1 C (6A to 9.60V)	**3.8Ah**
3 C (18A to 9.60V)	**2.4Ah**
Weight	Approx. **2.0kg(4.4Lbs.)**
Internal Resistance (at 1KHz)	Approx. **16 mΩ**
Maximum Discharge Current for	
5 seconds:	**90A**
Charging Methods at 25℃(77℉)	
Cycle use:	
Charging Voltage	**14.4 to 15.0V**
Coefficient -5.0mV/℃/cell	
Maximum Charging Current：	**1.8A**
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	**F1 or F2 (Faston Tab 187 or 250)**

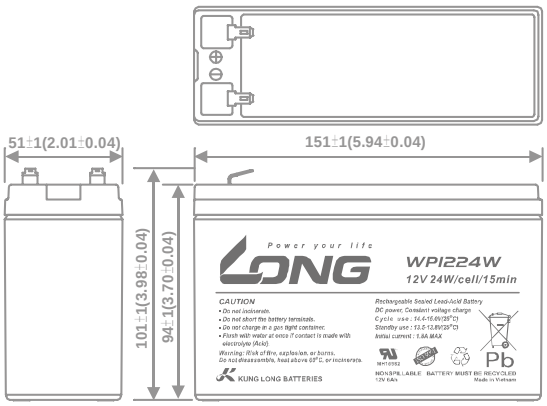
Dimensions mm(inch)

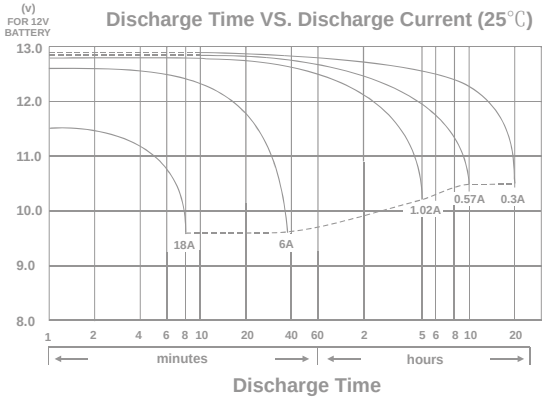


F1
(FASTON TAB NO. 187)

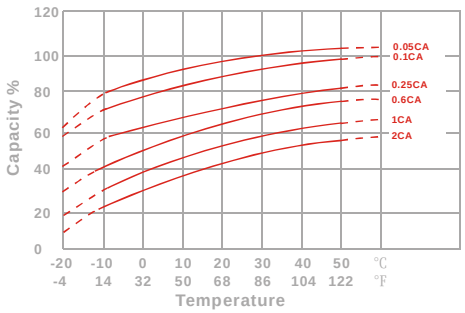


F2
(FASTON TAB NO. 250)

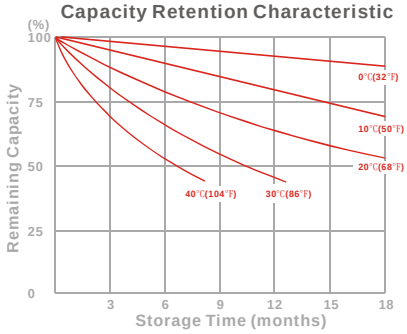




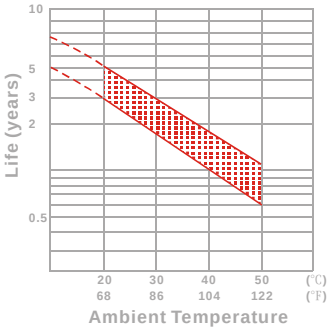
Effect of Temperature on Capacity 25℃(77℉)



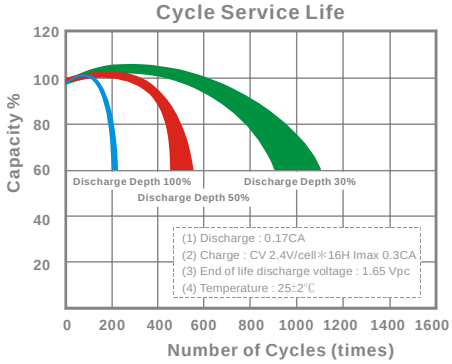
Capacity Retention Characteristic



Trickle (or float) Service Life



Cycle Service Life



- PERFORMANCE DATA

Discharge Rates in Watts to Various End Voltages at 25℃(77℉)

Time \ End Voltage		1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
5	min	37.8	43.7	47.3	50.4	51.3	52.4	54.0
8	min	28.0	32.5	35.7	38.0	39.0	39.8	41.0
10	min	25.7	29.2	31.3	33.0	33.9	34.3	35.3
15	min	20.3	22.4	23.8	25.0	25.3	25.8	26.3
20	min	16.3	17.7	19.0	19.9	20.2	20.5	20.8
30	min	13.3	14.3	14.8	15.2	15.4	15.6	15.9
60	min	7.20	7.73	8.03	8.30	8.38	8.48	8.64
120	min	4.40	4.65	4.87	5.02	5.07	5.13	5.22
300	min	2.01	2.14	2.22	2.29	2.31	2.34	2.37
600	min	1.26	1.29	1.30	1.31	1.32	1.32	1.33
1200	min	0.688	0.700	0.709	0.717	0.720	0.723	0.726

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

Time \ End Voltage		1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
5	min	19.1	22.6	24.9	27.0	27.7	28.6	29.8
8	min	17.0	18.8	19.9	20.8	21.1	21.5	22.1
10	min	14.2	15.7	16.8	17.7	18.0	18.4	19.0
15	min	11.3	12.2	12.9	13.4	13.6	13.7	13.9
20	min	9.71	10.2	10.3	10.7	10.9	11.0	11.2
30	min	6.78	7.19	7.46	7.69	7.78	7.90	8.07
60	min	3.63	3.85	4.00	4.13	4.19	4.24	4.32
120	min	1.88	2.01	2.12	2.21	2.25	2.29	2.34
300	min	0.961	1.032	1.071	1.097	1.108	1.12	1.13
600	min	0.593	0.612	0.619	0.626	0.628	0.631	0.636
1200	min	0.319	0.327	0.332	0.337	0.339	0.341	0.343

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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