



RECHARGEABLE SEALED LEAD ACID BATTERY

Revision 3.5



WP1234W

Specifications

Nominal Voltage (V)	12V
Nominal Capacity	
20hour rate (0.4A to 10.50V)	8Ah
10hour rate (0.8A to 10.50V)	7.6Ah
5hour rate (1.36A to 10.20V)	6.8Ah
1C (8.0A to 9.60V)	5.6Ah
3C (24A to 9.60V)	4.0Ah

Weight Approx. 2.78kg(6.12Lbs.)

Internal Resistance (at 1KHz) 15 m

Maximum Discharge Current for 30 seconds : 160A

Maximum Discharge Current for 5 seconds : 320A

Operating Temperature Range

Charge	0 (32) 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%

Charging Methods at 20 (68)

Cycle use:
Charging Voltage 14.4 to 15.0V
Maximum Charging Current : 2.4A

Standby use :
Float Charging Voltage 13.50 to 13.80V

Life expectancy :

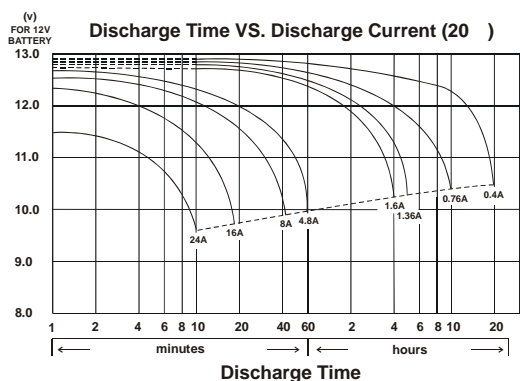
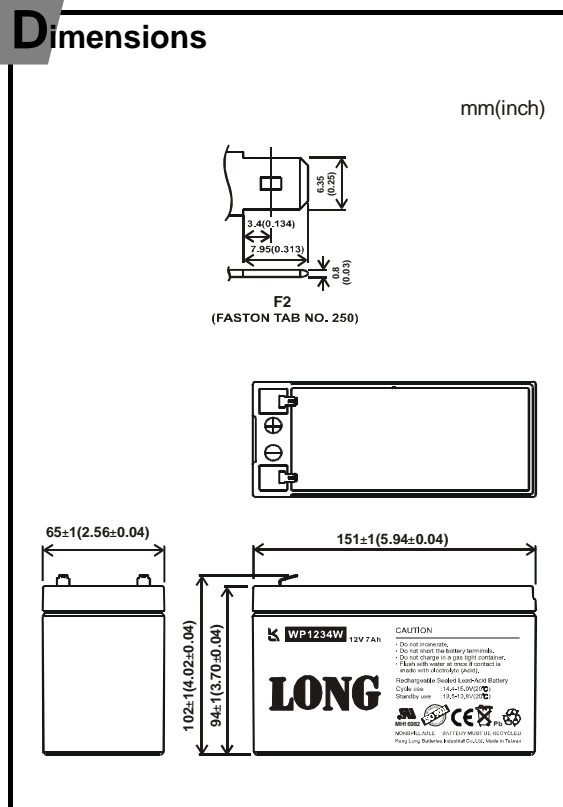
Cycle Use :
100% depth of discharge 225 cycles
80% depth of discharge 250 cycles
50% depth of discharge 750 cycles

Standby Use : 3~5years

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

Terminal F2

Dimensions





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PERFORMANCE DATA Discharge Rates in Watts to Various End Voltages at 25

End Voltage Time	11.40V	11.10V	10.80V	10.50V	10.20V	9.90V	9.60V
2 min	443	478	503	515	540	544	557
3 min	438	466	484	493	508	511	519
5 min	382	399	411	417	424	426	430
7 min	332	345	353	358	362	364	366
10 min	273	282	288	292	294	295	296
15 min	210	216	221	223	224	225	225
20 min	173	178	181	183	183	184	184
30 min	127	131	133	135	135	135	135
60 min	71.5	74.2	75.6	76.2	76.2	76.4	76.4
90 min	48.1	50.7	52.1	52.5	52.8	52.9	53.0
120 min	36.8	38.9	39.9	40.2	40.4	40.5	40.5
180 min	25.7	27.2	27.9	28.1	28.1	28.2	28.2
240 min	19.6	20.8	21.3	21.4	21.5	21.5	21.5
300 min	15.8	16.8	17.2	17.3	17.4	17.4	17.4
360 min	13.2	14.0	14.3	14.4	14.5	14.5	14.5
480 min	9.90	10.5	10.8	10.9	10.9	10.9	10.9
600 min	7.80	8.30	8.60	8.70	8.70	8.70	8.70
1200 min	3.50	3.80	3.90	4.00	4.00	4.00	4.00

Discharge Rates in Amperes to Various End Voltages at 25

End Voltage Time	11.40V	11.10V	10.80V	10.50V	10.20V	9.90V	9.60V
1 min	44.8	52.0	60.6	68.6	74.5	77.1	78.8
2 min	35.5	40.1	44.3	47.6	49.8	50.7	51.6
3 min	30.3	33.7	36.3	38.1	39.2	39.7	40.2
5 min	24.1	26.4	27.8	28.5	28.9	29.1	29.3
7 min	20.4	22.1	23.0	23.4	23.6	23.7	23.8
10 min	16.8	18.1	18.7	18.9	19.0	19.0	19.1
15 min	13.3	14.2	14.7	14.8	14.8	14.8	14.9
20 min	11.1	11.9	12.2	12.4	12.4	12.4	12.4
30 min	8.51	9.04	9.38	9.54	9.61	9.63	9.66
60 min	5.17	5.47	5.80	6.05	6.20	6.25	6.27
90 min	3.66	3.90	4.03	4.08	4.11	4.13	4.16
120 min	2.89	3.08	3.18	3.23	3.25	3.27	3.28
180 min	2.04	2.18	2.26	2.29	2.30	2.31	2.32
240 min	1.58	1.70	1.75	1.78	1.79	1.80	1.81
300 min	1.29	1.39	1.44	1.45	1.46	1.47	1.47
360 min	1.08	1.17	1.21	1.23	1.23	1.24	1.25
480 min	0.82	0.90	0.93	0.94	0.94	0.94	0.95
600 min	0.66	0.72	0.75	0.76	0.76	0.77	0.77
1200 min	0.32	0.36	0.38	0.38	0.39	0.39	0.40