



MP1235HL

Nominal Voltage(V) 12V

Nominal Capacity

15 min rate	(210W to 9.60V)	52.5Wh
5 hour rate	(1.445A to 10.20V)	7.225Ah
1 C	(8.5A to 9.60V)	5.38Ah
3 C	(25.5A to 9.60V)	3.4Ah

Weight Approx. 2.7kg(5.94Lbs.)

Internal Resistance (at 1KHz) Approx. 14 mΩ

Maximum Discharge Current for

5 seconds: 127.5A

Charging Methods at 25° (77°)

Cycle use:

Charging Voltage	14.7 to 14.8V
Coefficient -5.0mV/° /cell	
Maximum Charging Current:	2.55A

Standby use:

Float Charging Voltage	13.50 to 13.80V
Coefficient -3.0mV/° /cell	

Operating Temperature Range

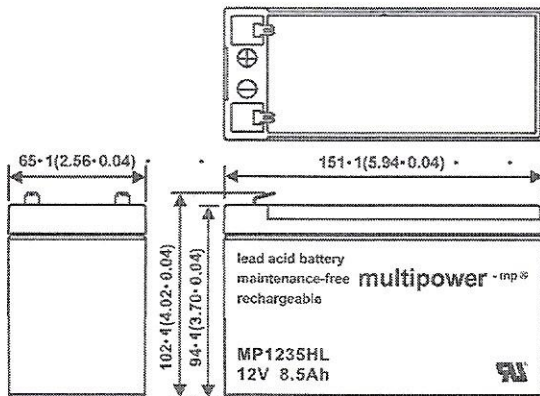
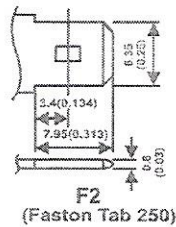
Charge	-15° (5°) to 40° (104°)
Discharge	-15° (5°) to 50° (122°)
Storage	-15° (5°) to 40° (104°)

Charge Retention (shelf life) at 20° (68°)

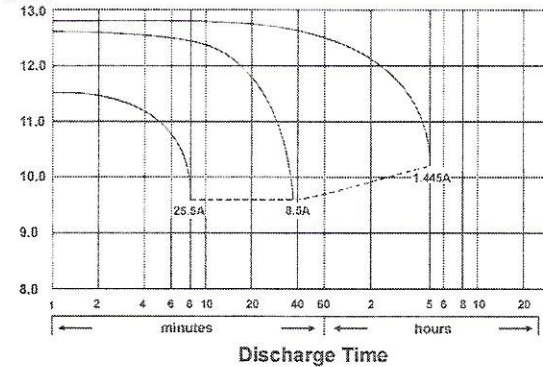
1 month	92%
3 month	90%
6 month	80%

Case Material ABS UL94 HB

Terminal F2(Faston Tab 250)

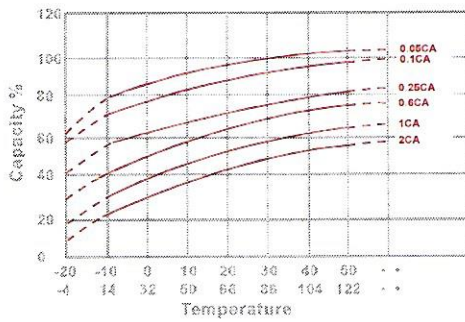


(V) FOR 12V BATTERY **Discharge Time VS. Discharge Current (25°)**

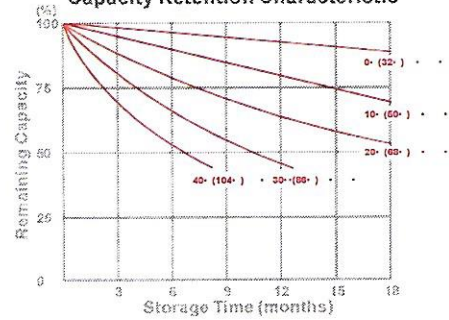


CHARACTERISTIC & PERFORMANCE DATA

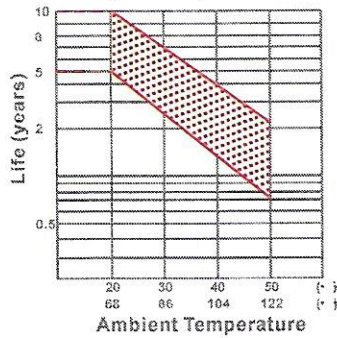
Effect of Temperature on Capacity 25• (77•)



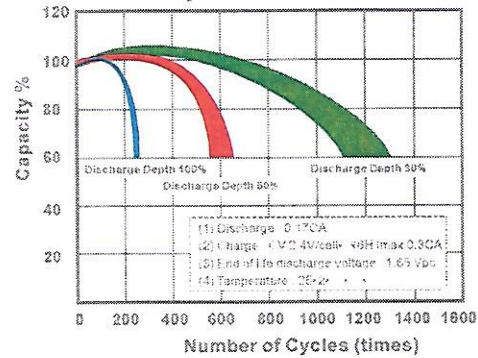
Capacity Retention Characteristic



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	1.65V	1.60V
Time							
5	min	55.8	59.7	64.1	67.1	70.4	73.8
10	min	35.8	38.3	41.1	43.1	45.2	47.3
15	min	27.4	28.7	30.3	31.7	33.1	34.5
30	min	15.7	16.4	17.3	18.2	19.0	19.8
60	min	9.76	10.1	10.3	10.4	10.5	10.7
120	min	5.15	5.32	5.44	5.50	5.56	5.67
180	min	4.15	4.29	4.38	4.43	4.48	4.57
240	min	3.33	3.44	3.52	3.56	3.60	3.65
300	min	2.83	2.93	2.99	3.02	3.05	3.06
600	min	1.59	1.64	1.68	1.69	1.70	1.71
1200	min	0.836	0.865	0.884	0.893	0.903	0.910

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

End Voltage		1.85V	1.80V	1.75V	1.70V	1.65V	1.60V
Time							
5	min	29.9	32.0	34.3	36.0	37.7	39.5
10	min	18.7	20.0	21.5	22.5	23.6	24.7
15	min	14.0	14.6	15.5	16.2	16.9	17.6
30	min	7.92	8.28	8.75	9.16	9.57	9.98
60	min	4.90	5.07	5.18	5.24	5.27	5.29
120	min	2.57	2.66	2.72	2.75	2.77	2.78
180	min	2.06	2.13	2.18	2.21	2.22	2.23
240	min	1.65	1.71	1.75	1.76	1.77	1.78
300	min	1.40	1.45	1.48	1.50	1.51	1.52
600	min	0.784	0.811	0.829	0.838	0.842	0.847
1200	min	0.413	0.427	0.436	0.441	0.443	0.446

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%)