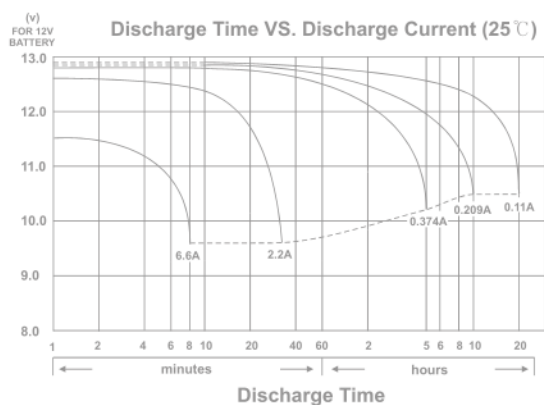
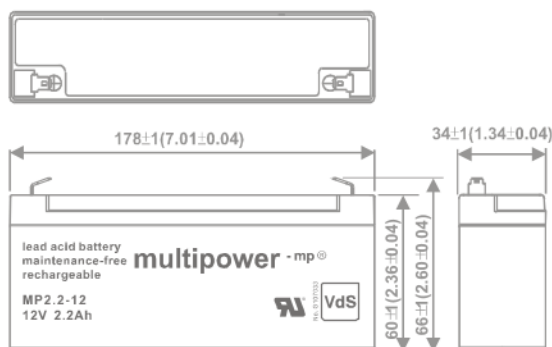
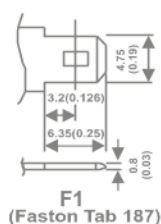


RECHARGEABLE SEALED LEAD ACID BATTERY

SPECIFICATION



MP2,2-12

Nominal Voltage (V) 12V

Nominal Capacity

20 hour rate	(0.11A	to	10.50V)	2.20Ah
10 hour rate	(0.209A	to	10.50V)	2.09Ah
5 hour rate	(0.374A	to	10.20V)	1.87Ah
1 C	(2.2A	to	9.60V)	1.25Ah
3 C	(6.6A	to	9.60V)	0.88Ah

Weight Approx. 1.04kg (2.42lbs)

Internal Resistance (at 1KHz) Approx. 37 mΩ

Maximum Discharge Current for

5 seconds: 33A

Charging Methods at 25°C (77°F)

Cycle use:

Charging Voltage 14.70V to 14.80V

Coefficient -5.0mV/°C/cell

Maximum Charging Current: 0.66A

Standby use:

Float Charging Voltage 13.50V to 13.80V

Coefficient -3.0mV/°C/cell

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%

Case Material

ABS

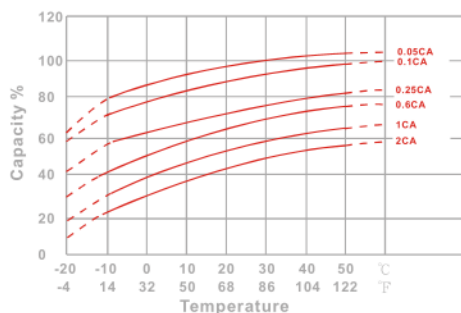
(UL94 HB flame retardant case / cover)

Terminal

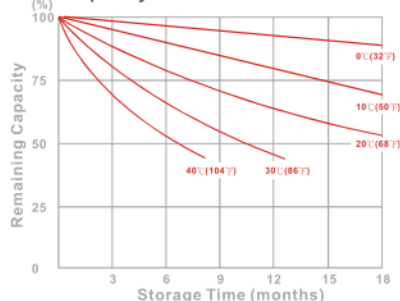
F1 (Faston Tab 187)

CHARACTERISTIC & PERFORMANCE DATA

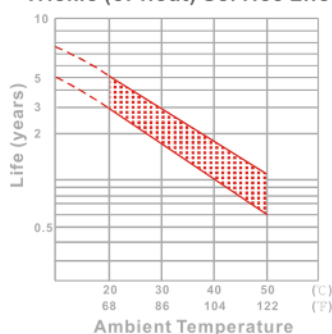
Effect of Temperature on Capacity 25°C(77°F)



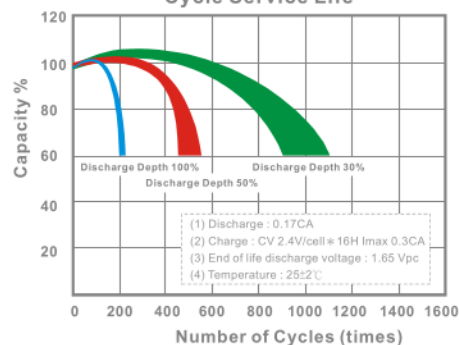
Capacity Retention Characteristic



Trickle (or float) Service Life



Cycle Service Life



- PERFORMANCE DATA

Discharge Rates in Watts to Various End Voltages at 25°C (77°F)

End Voltage		1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
Time								
5	min	66.9	81.5	88.4	91.2	92.8	94.1	96.4
10	min	46.2	55.9	60.1	63.1	64.2	64.5	65.5
15	min	40.3	44.8	46.2	47.4	47.8	48.0	48.6
30	min	21.6	23.3	24.1	24.8	24.9	25.3	25.6
60	min	13.5	14.6	15.5	16.0	16.1	16.3	16.4
120	min	8.08	8.79	9.18	9.54	9.67	9.85	10.1
180	min	6.05	6.66	6.92	7.15	7.23	7.33	7.48
240	min	4.94	5.35	5.59	5.77	5.84	5.91	5.97
300	min	4.13	4.59	4.72	4.81	4.84	4.88	4.92
600	min	2.43	2.65	2.73	2.78	2.80	2.82	2.84
1200	min	1.32	1.38	1.42	1.45	1.46	1.47	1.48

- Discharge Rates in Amperes to Various End Voltages at 25°C (77°F)

End Voltage		1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
Time								
5	min	7.24	7.85	8.36	8.79	8.99	9.16	9.45
10	min	4.55	5.10	5.39	5.61	5.68	5.77	5.88
15	min	3.64	3.88	4.05	4.18	4.23	4.27	4.33
30	min	1.85	2.04	2.13	2.20	2.22	2.25	2.29
60	min	1.18	1.27	1.32	1.36	1.37	1.39	1.41
120	min	0.655	0.718	0.752	0.783	0.796	0.813	0.836
180	min	0.486	0.538	0.561	0.583	0.591	0.601	0.615
240	min	0.393	0.429	0.451	0.470	0.475	0.483	0.491
300	min	0.351	0.369	0.382	0.390	0.394	0.399	0.404
600	min	0.208	0.216	0.222	0.227	0.228	0.230	0.232
1200	min	0.109	0.113	0.116	0.118	0.119	0.120	0.121

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

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