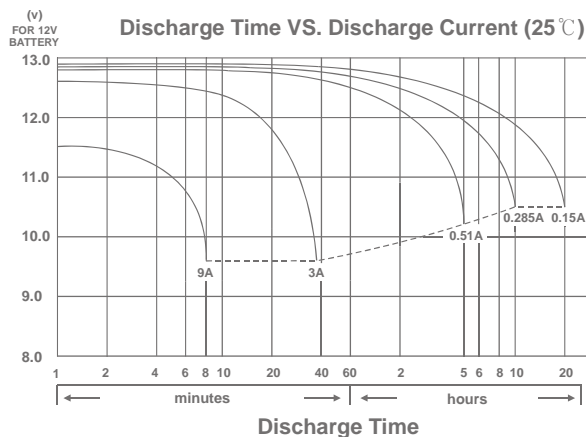
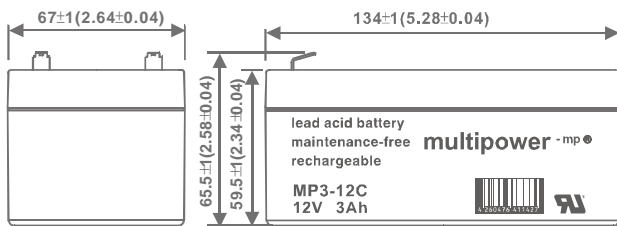
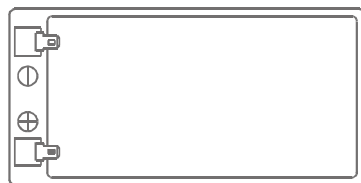
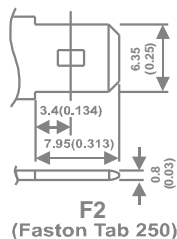


## RECHARGEABLE SEALED LEAD ACID BATTERY

## SPECIFICATION



### MP3-12C

Nominal Voltage (V) 12V

#### Nominal Power

15 mins rate: 13W/cell to 1.60V/cell

#### Nominal Capacity

20 hour rate	(0.15A to 10.50V)	3Ah
10 hour rate	(0.285A to 10.50V)	2.85Ah
5 hour rate	(0.51A to 10.20V)	2.55Ah
1 C	(3A to 9.60V)	1.9Ah
3 C	(9A to 9.60V)	1.2Ah

Weight Approx. 1.3kg (2.86Lbs.)

Internal Resistance (at 1KHz) Approx. 34 mΩ

#### Maximum Discharge Current for

5 seconds: 45A

#### Charging Methods at 25°C (77°F)

##### Cycle use:

Charging Voltage 14.7 to 14.8V

Coefficient -5.0mV/°C/cell

Maximum Charging Current: 0.9A

##### Standby use:

Float Charging Voltage 13.5 to 13.8V

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

(UL94 HB flame retardant case / cover)

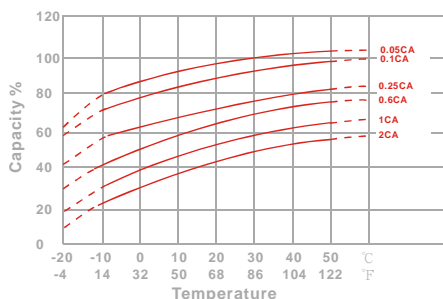
ABS

#### Terminal

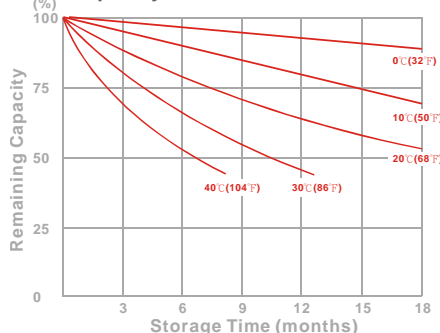
F2 (Faston Tab 250)

## CHARACTERISTIC & PERFORMANCE DATA

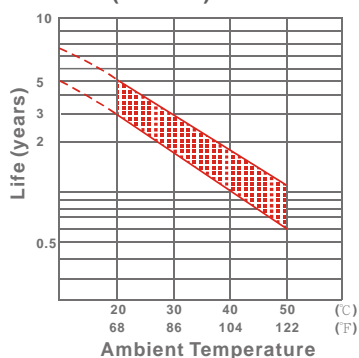
Effect of Temperature on Capacity 25°C(77°F)



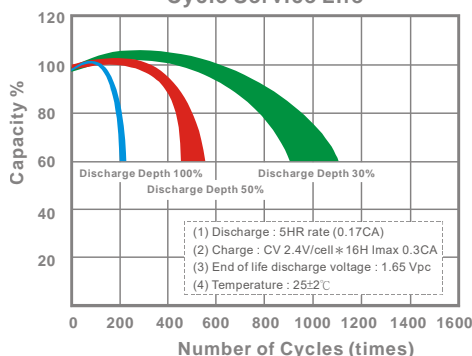
Capacity Retention Characteristic



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	18.7	20.5	22.0	23.2	23.5	24	24.5
10	min	13.2	14.4	15.0	15.7	15.9	16.2	16.6
15	min	10.9	11.6	11.9	12.2	12.3	12.5	12.6
30	min	5.62	6.08	6.35	6.57	6.65	6.75	6.87
60	min	3.25	3.47	3.65	3.80	3.85	3.92	3.97
120	min	1.92	2.03	2.15	2.23	2.30	2.33	2.37
180	min	1.49	1.55	1.61	1.67	1.71	1.75	1.79
240	min	1.26	1.3	1.33	1.35	1.36	1.37	1.38
300	min	1.10	1.13	1.15	1.17	1.17	1.18	1.19
600	min	0.601	0.613	0.638	0.646	0.649	0.654	0.658
1200	min	0.330	0.345	0.355	0.363	0.365	0.368	0.372

### - 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	12.8	13.4	13.8	14.1	14.2	14.4	14.5
10	min	7.96	8.33	8.52	8.68	8.74	8.81	8.89
15	min	5.97	6.23	6.34	6.43	6.45	6.49	6.54
30	min	3.22	3.36	3.44	3.5	3.52	3.54	3.56
60	min	1.85	1.94	1.98	2.01	2.02	2.03	2.04
120	min	1.01	1.08	1.11	1.13	1.14	1.15	1.16
180	min	0.732	0.781	0.806	0.827	0.843	0.852	0.863
240	min	0.597	0.625	0.646	0.661	0.666	0.672	0.680
300	min	0.509	0.541	0.557	0.570	0.574	0.579	0.585
600	min	0.283	0.299	0.307	0.312	0.314	0.317	0.319
1200	min	0.145	0.153	0.159	0.164	0.166	0.167	0.169

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%)