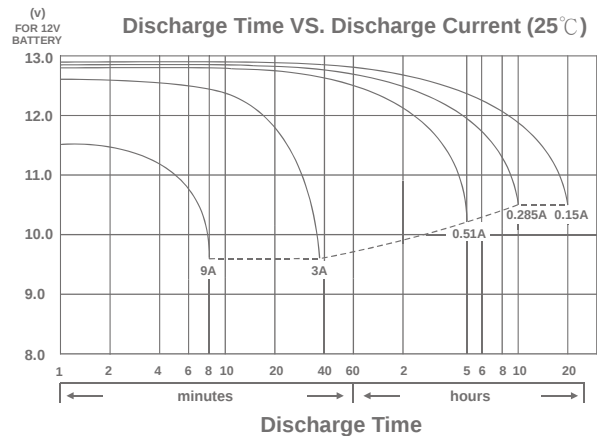
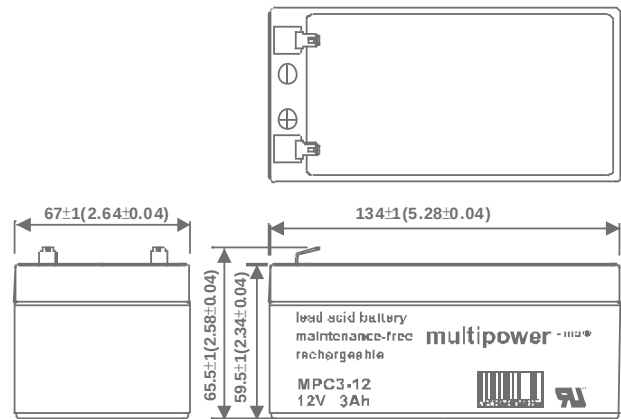
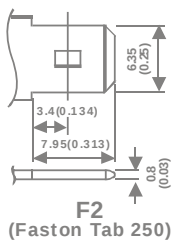


multipower - mp®

RECHARGEABLE SEALED LEAD ACID BATTERY

SPECIFICATION



MPC3-12

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)	3.00Ah
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)	1.90Ah
3 C	(9A	to	9.60V)	1.20Ah

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)

Maximum Charging Current:	0.9A
Boost Charging Voltage	14.40 to 15.00V
Boost Charge Time	8-9Hr
Float Charging Voltage	13.50 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)

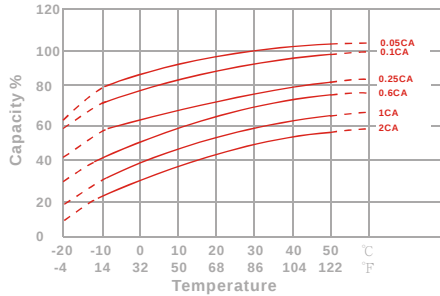
1 month	92 %
3 month	90 %
6 month	80 %

Case Material ABS UL94 HB

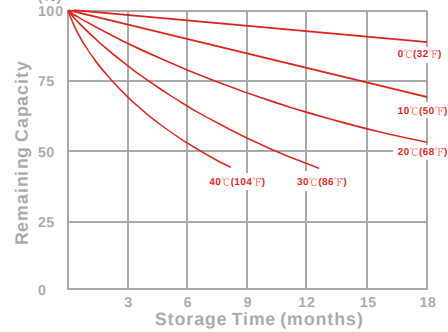
Terminal F2(Faston Tab 250)

CHARACTERISTIC & PERFORMANCE DATA

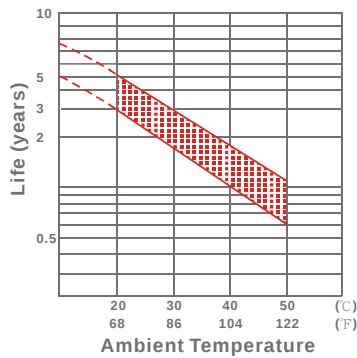
Effect of Temperature on Capacity 25°C(77°F)



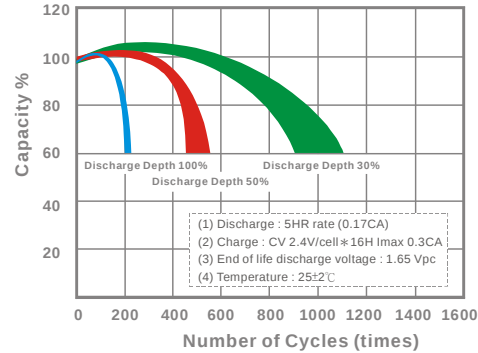
Capacity Retention Characteristic



Trickle (or float) Service Life



Cycle Service Life



- PERFORMANCE DATA

Discharge Rates in Watts per Cell 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 per Battery 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%)