

RECHARGEABLE SEALED LEAD ACID BATTERY

SPECIFICATION



MP12-12C

Nominal Voltage(V) 12V

Nominal Capacity

20 hour rate	(0.6A to 10.50V)	12Ah
10 hour rate	(1.14A to 10.50V)	11.4Ah
5 hour rate	(2.04A to 10.20V)	10.2Ah
1 C	(12A to 9.60V)	6.8Ah
3 C	(36A to 9.60V)	4.8Ah

Weight Approx. 4.1kg(9.02Lbs.)

Internal Resistance (at 1KHz) Approx. 13 mΩ

Maximum Discharge Current for

5 seconds: 180A

Charging Methods at 25°C(77°F)

Cycle use:

Charging Voltage 14.4 to 15.0V

Coefficient -5.0mv/°C/cell

Maximum Charging Current: 3.6A

Standby use:

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%

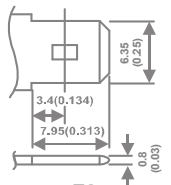
Case Material

ABS

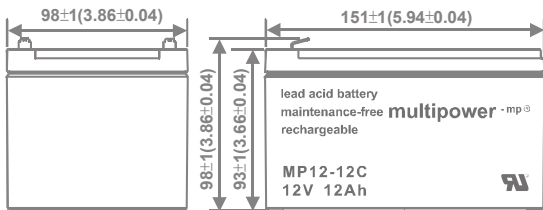
(UL94 HB flame retardant case / cover)

Terminal

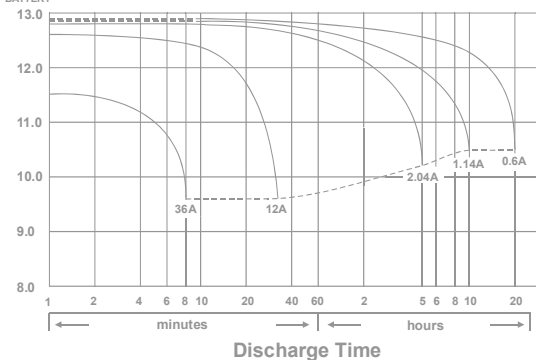
F2(Faston Tab 250)



F2
(Faston Tab 250)

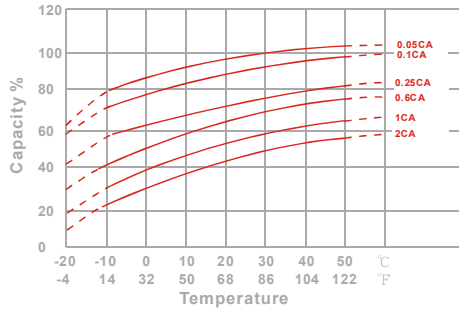


(V) FOR 12V BATTERY
Discharge Time VS. Discharge Current (25°C)

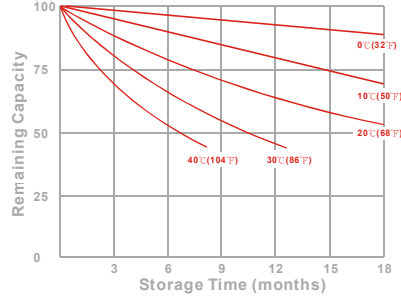


CHARACTERISTIC & PERFORMANCE DATA

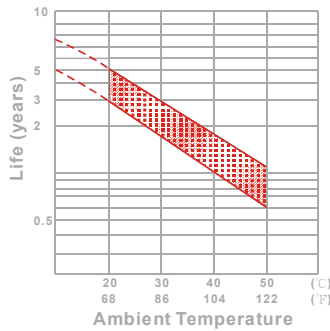
Effect of Temperature on Capacity 25°C(77°F)



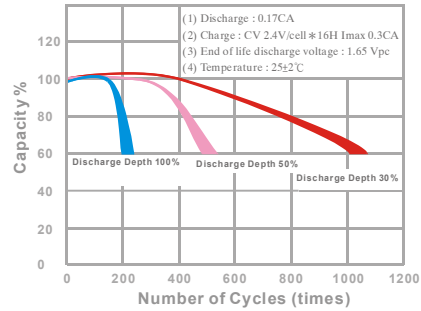
Capacity Retention Characteristic



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	376	422	456	491	507	523	553
10	min	302	329	343	358	363	371	380
15	min	226	240	249	258	261	266	273
30	min	127	136	142	146	148	150	152
60	min	88.3	91.6	93.6	95.6	96.6	97.5	98.6
120	min	50.8	52.5	53.3	53.9	54.1	54.4	54.9
180	min	34.6	35.9	37.0	37.9	38.3	38.8	39.2
240	min	27.7	28.3	28.8	29.4	29.7	30.2	30.6
300	min	24.4	25.2	25.8	26.5	26.7	27.0	27.6
600	min	14.4	14.8	15.0	15.2	15.3	15.4	15.5
1200	min	7.32	7.41	7.64	7.75	7.84	7.93	8.10

- 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	38.5	42.7	45.8	49.0	50.4	51.9	54.7
10	min	27.2	29.6	30.9	32.2	32.7	33.4	34.2
15	min	20.2	21.5	22.3	23.1	23.4	23.7	24.4
30	min	11.6	12.3	12.8	13.2	13.3	13.5	13.7
60	min	7.84	8.03	8.15	8.26	8.31	8.37	8.45
120	min	4.09	4.24	4.35	4.44	4.47	4.51	4.56
180	min	2.81	3.00	3.07	3.13	3.16	3.19	3.23
240	min	2.27	2.32	2.36	2.41	2.44	2.47	2.51
300	min	1.95	2.06	2.12	2.18	2.20	2.23	2.27
600	min	1.17	1.20	1.22	1.24	1.25	1.26	1.27
1200	min	0.599	0.606	0.625	0.634	0.641	0.649	0.663

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%)