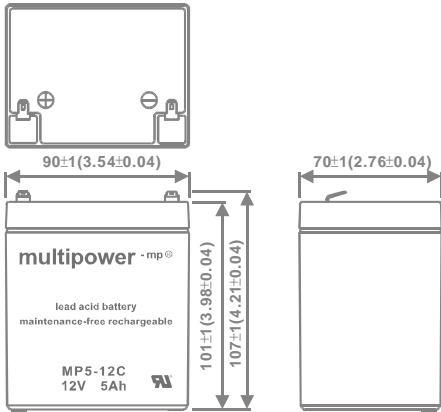
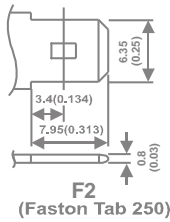
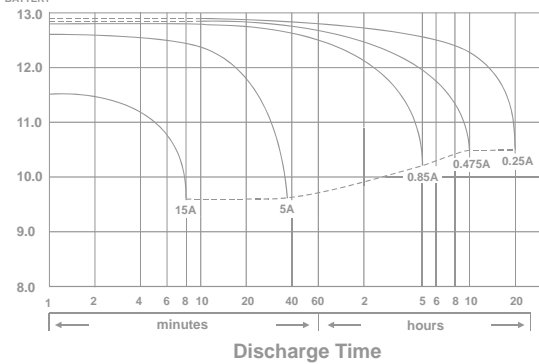


# RECHARGEABLE SEALED LEAD ACID BATTERY

# SPECIFICATION



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



## MP5-12C

**Nominal Voltage(V)** 12V

### Nominal Capacity

20 hour rate	(0.25A	to	10.50V)	5Ah
10 hour rate	(0.475A	to	10.50V)	4.75Ah
5 hour rate	(0.85A	to	10.20V)	4.25Ah
1 C	(5A	to	9.60V)	3.17Ah
3 C	(15A	to	9.60V)	2Ah

**Weight Approx.** 1.9kg(4.18Lbs.)

**Internal Resistance (at 1KHz) Approx.** 18 mΩ

**Maximum Discharge Current for 5 seconds:** 75A

### Charging Methods at 25°C(77°F)

Cycle use:	
Charging Voltage	14.4 to 15.0V
Coefficient	-5.0mv/°C/cell
Maximum Charging Current:	1.5A
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)

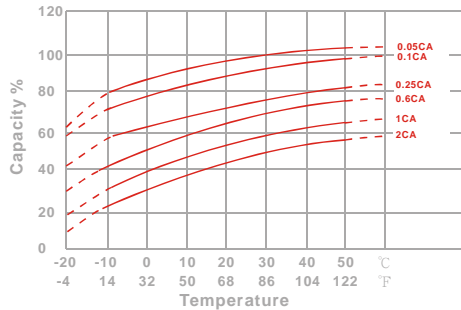
1 month	92%
3 month	90%
6 month	80%

**Case Material** ABS  
 (UL94 HB flame retardant case / cover)

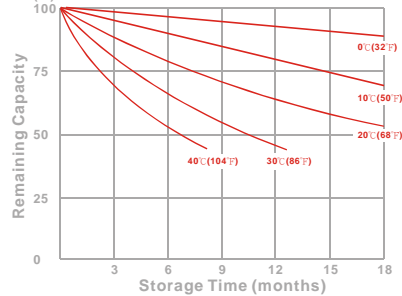
**Terminal** F2(Faston Tab 250)

## CHARACTERISTIC & PERFORMANCE DATA

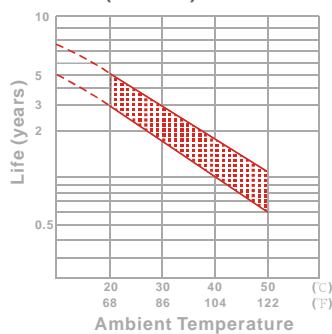
Effect of Temperature on Capacity 25°C(77°F)



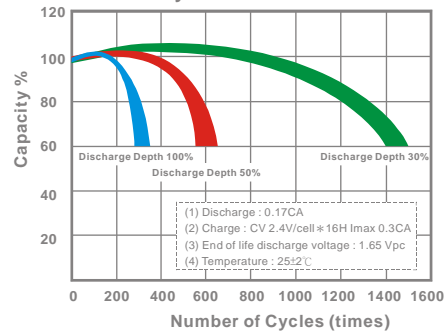
Capacity Retention Characteristic



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
5	min	214	232	244	256	261	268	276
10	min	154	166	174	180	183	187	193
15	min	120	128	132	136	138	140	143
30	min	65.6	68.9	71.2	73.6	74.4	75.3	76.0
60	min	35.7	37.6	38.8	40.2	40.9	41.6	42.4
120	min	18.8	20.3	21.2	21.9	22.3	22.8	23.5
180	min	15.2	16.3	17.1	17.8	18.1	18.4	18.9
240	min	12.1	12.9	13.6	14.0	14.2	14.4	14.7
300	min	10.4	11.2	11.7	11.9	12.0	12.1	12.3
600	min	6.05	6.53	6.89	7.02	7.08	7.14	7.23
1200	min	3.18	3.43	3.62	3.69	3.72	3.75	3.80

### - 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
5	min	17.4	21.3	23.4	25.3	25.9	26.5	27.2
10	min	12.9	14.5	15.4	15.9	16.3	16.6	17.0
15	min	9.72	10.3	10.7	10.9	11.0	11.1	11.3
30	min	5.72	6.03	6.13	6.25	6.29	6.34	6.42
60	min	3.04	3.20	3.38	3.46	3.49	3.53	3.59
120	min	1.58	1.70	1.79	1.87	1.91	1.94	1.99
180	min	1.23	1.31	1.37	1.43	1.45	1.48	1.51
240	min	1.00	1.07	1.11	1.15	1.16	1.18	1.21
300	min	0.851	0.898	0.919	0.942	0.953	0.962	0.978
600	min	0.497	0.506	0.514	0.521	0.524	0.529	0.535
1200	min	0.268	0.274	0.279	0.284	0.286	0.287	0.291

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%)