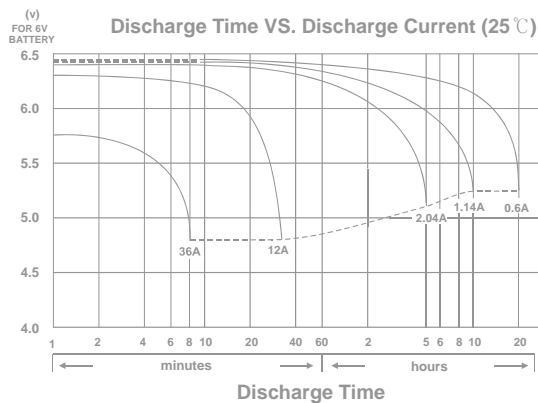
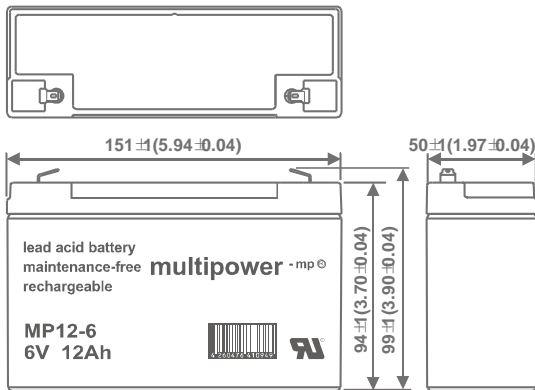
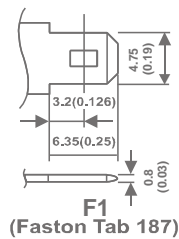


## RECHARGEABLE SEALED LEAD ACID BATTERY

## SPECIFICATION



### MP12-6

Nominal Voltage (V) 6V

#### Nominal Capacity

20 hour rate	(0.6A to 5.25V)	12.000Ah
10 hour rate	(1.14A to 5.25V)	11.400Ah
5 hour rate	(2.04A to 5.1V)	10.200Ah
1 C	(12A to 4.8V)	6.800Ah
3 C	(36A to 4.8V)	4.800Ah

Weight Approx. 1.9kg (4.19lbs.)

Internal Resistance (at 1KHz) Approx. 6 mΩ

#### Maximum Discharge Current for

5 seconds: 180A

#### Charging Methods at 25°C (77°F)

Cycle use:	
Charging Voltage	7.20 to 7.50V
Coefficient -5.0mV/°C/cell	
Maximum Charging Current:	3.6A
Standby use:	
Float Charging Voltage	6.75 to 6.90V
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)

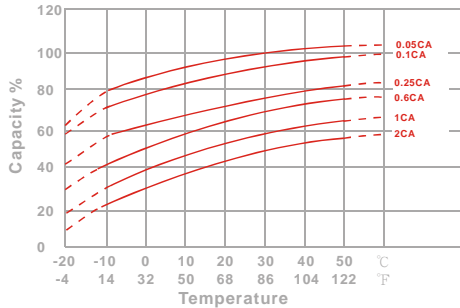
1 month	92%
3 month	90%
6 month	80%

Case Material ABS UL94 HB

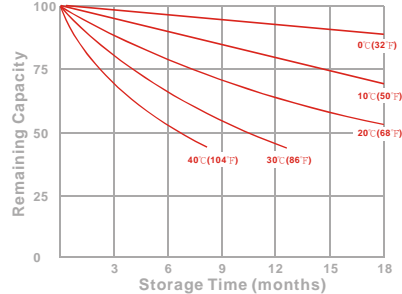
Terminal F1 (Faston Tab 187)

## CHARACTERISTIC & PERFORMANCE DATA

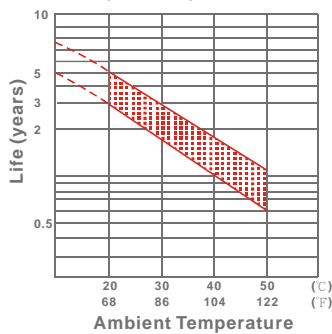
Effect of Temperature on Capacity 25°C (77°F)



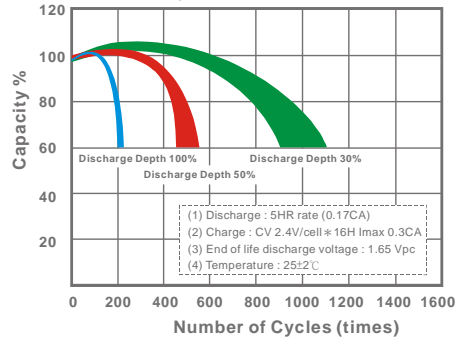
Capacity Retention Characteristic



Trickle (or float) Service Life



Cycle Service Life



### - PERFORMANCE DATA

Discharge Rates in Watts 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	72.5	77.9	80.3	81.9	84.0	85.7	87.5
10	min	47.7	52.4	54.0	55.1	56.8	57.5	58.9
15	min	39.5	41.5	42.8	43.7	45.0	45.9	46.2
30	min	22.2	24.0	24.7	25.2	26.5	27.0	27.4
60	min	13.5	14.4	14.8	15.1	15.4	15.7	15.9
120	min	7.85	8.51	8.77	8.95	9.01	9.29	9.40
180	min	5.88	5.95	6.35	6.37	6.40	6.45	6.58
240	min	4.75	4.80	4.85	4.87	4.92	4.94	4.98
300	min	3.92	4.15	4.28	4.32	4.35	4.40	4.44
600	min	2.10	2.21	2.28	2.33	2.39	2.44	2.47
1200	min	1.09	1.20	1.23	1.26	1.31	1.35	1.39

### - 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	39.5	41.2	44.3	45.2	46.7	47.1	47.8
10	min	27.1	30.0	31.8	32.4	33.1	33.4	33.7
15	min	20.2	21.0	22.3	22.4	23.2	23.4	23.6
30	min	12.0	12.3	13.0	13.5	13.7	13.8	14.1
60	min	7.32	7.56	8.02	8.18	8.34	8.42	8.45
120	min	3.95	4.15	4.40	4.49	4.58	4.62	4.66
180	min	2.95	3.00	3.11	3.17	3.24	3.26	3.29
240	min	2.30	2.33	2.47	2.52	2.57	2.59	2.62
300	min	1.85	1.95	2.07	2.11	2.15	2.17	2.21
600	min	1.13	1.16	1.20	1.22	1.25	1.26	1.31
1200	min	0.610	0.617	0.630	0.645	0.665	0.670	0.692

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%)