

RECHARGEABLE SEALED LEAD ACID BATTERY

SPECIFICATION



MP5.4-12B

Nominal Voltage(V) 12V

Nominal Capacity

20 hour rate	(0.27A	to	10.50V)	5.40Ah
10 hour rate	(0.513A	to	10.50V)	5.13Ah
5 hour rate	(0.918A	to	10.20V)	4.59Ah
1 C	(5.4A	to	9.60V)	3.06Ah
3 C	(16.2A	to	9.60V)	2.16Ah

Weight Approx. 1.9kg (4.18Lbs.)

Internal Resistance (at 1KHz) Approx. 19 mΩ

Maximum Discharge Current for 5 seconds: 81A

Charging Methods at 25°C (77°F)

Cycle use:

Charging Voltage	14.7 to 14.8V
Coefficient -5.0mV/°C/cell	
Maximum Charging Current :	1.62A

Standby use:

Float Charging Voltage	13.5 to 13.8V
Coefficient -3.0mV/°C/cell	

Operating Temperature Range

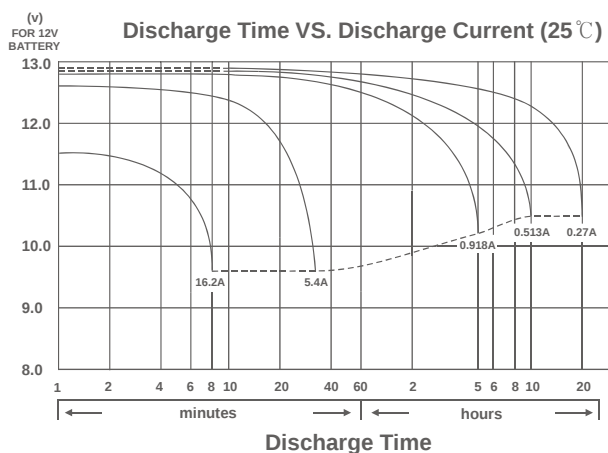
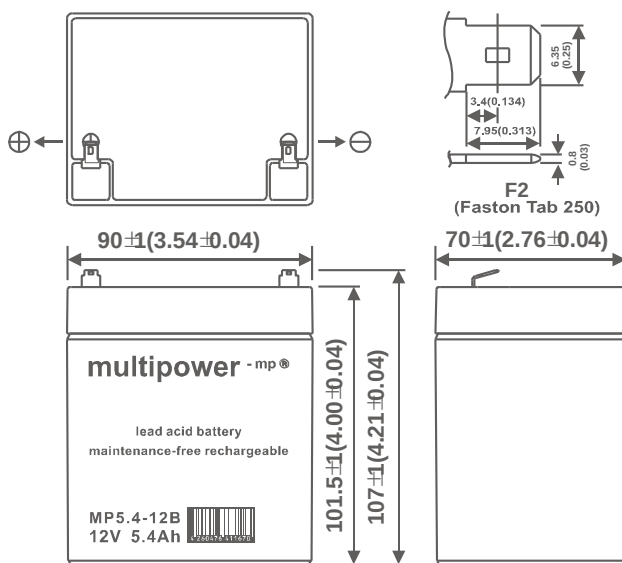
Charge	-15°C(5°F) to 40°C(104°F)
Discharge	-15°C(5°F) to 50°C(122°F)
Storage	-15°C(5°F) to 40°C(104°F)

Charge Retention (shelf life) at 20°C (68°F)

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

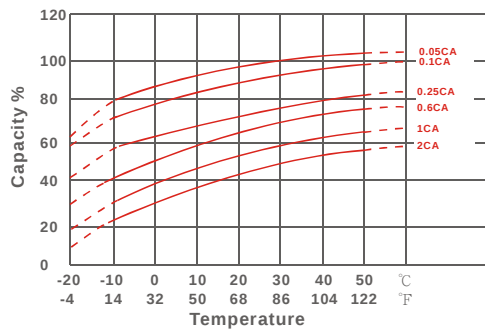
Case Material ABS UL94 HB

Terminal F2 (Faston Tab 250)

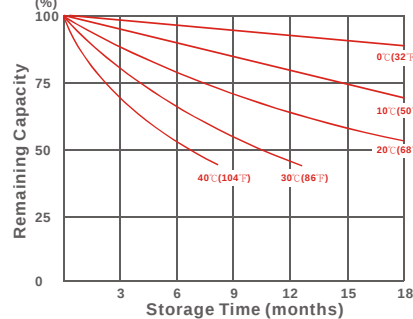


CHARACTERISTIC & PERFORMANCE DATA

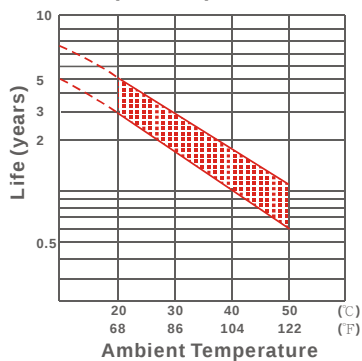
Effect of Temperature on Capacity 25°C(77°F)



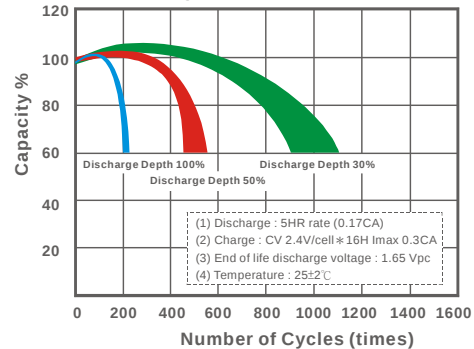
Capacity Retention Characteristic



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	36.3	39.5	41.5	43.5	44.3	45.5	47.0
10	min	25.7	27.7	29.2	30.2	30.7	31.3	32.3
15	min	19.7	21.2	21.8	22.5	22.8	23.2	23.7
30	min	11.2	11.7	12.1	12.5	12.7	12.8	12.9
60	min	5.95	6.27	6.47	6.70	6.82	6.93	7.07
120	min	3.13	3.38	3.53	3.65	3.72	3.80	3.92
180	min	2.53	2.72	2.85	2.97	3.02	3.07	3.15
240	min	2.02	2.15	2.27	2.33	2.37	2.40	2.45
300	min	1.73	1.87	1.95	1.98	2.00	2.02	2.05
600	min	1.01	1.09	1.15	1.17	1.18	1.19	1.21
1200	min	0.530	0.572	0.603	0.615	0.620	0.625	0.633

- 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	17.8	21.7	23.9	25.8	26.4	27.0	27.8
10	min	13.2	14.8	15.7	16.2	16.6	16.9	17.3
15	min	9.92	10.5	10.9	11.1	11.2	11.3	11.5
30	min	5.84	6.15	6.26	6.38	6.42	6.47	6.55
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	1.27	1.35	1.41	1.47	1.49	1.52	1.55
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%)