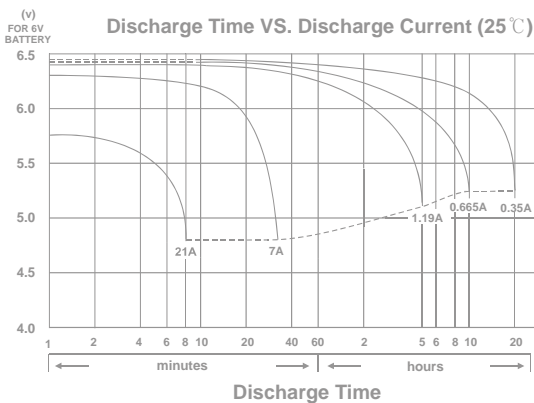
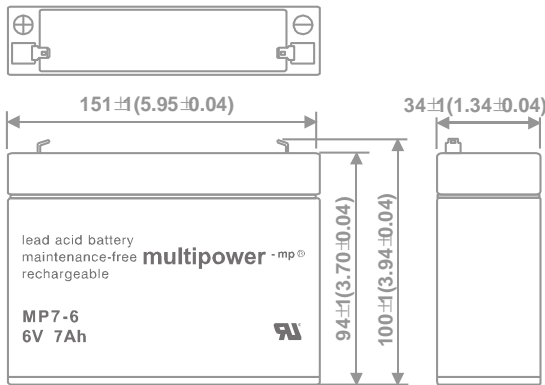
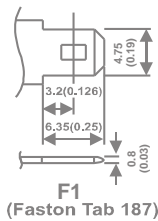


# multipower - mp<sup>®</sup>

## RECHARGEABLE SEALED LEAD ACID BATTERY

## SPECIFICATION



### MP7-6

Nominal Voltage (V) 6V

#### Nominal Capacity

20 hour rate	(0.35A	to	5.25V)	7.00Ah
10 hour rate	(0.665A	to	5.25V)	6.65Ah
5 hour rate	(1.19A	to	5.1V)	5.95Ah
1 C	(7A	to	4.8V)	3.97Ah
3 C	(21A	to	4.8V)	2.80Ah

Weight Approx. 1.2kg (2.64lbs)

Internal Resistance (at 1KHz) Approx. 12 mΩ

#### Maximum Discharge Current for

5 seconds: 105A

#### Charging Methods at 25°C (77°F)

Cycle use:	
Charging Voltage	7.35V to 7.40V
Coefficient -5.0mv/°C/cell	
Maximum Charging Current:	2.1A
Standby use:	
Float Charging Voltage	6.75V 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

(UL94 HB flame retardant case / cover)

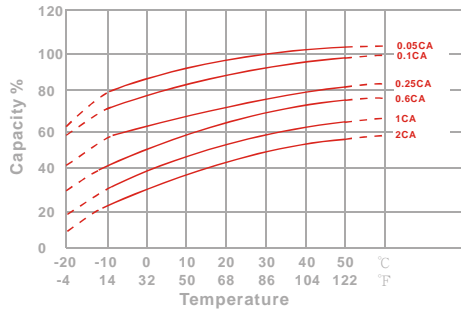
ABS

#### Terminal

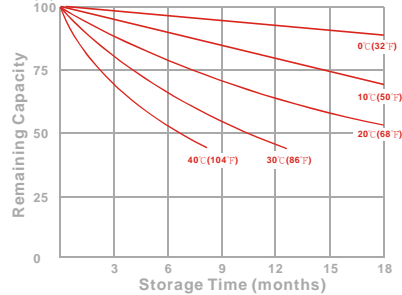
F1 (Faston Tab 187)

## CHARACTERISTIC & PERFORMANCE DATA

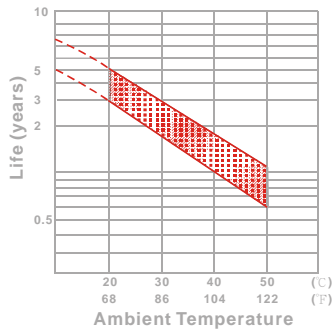
Effect of Temperature on Capacity 25°C (77°F)



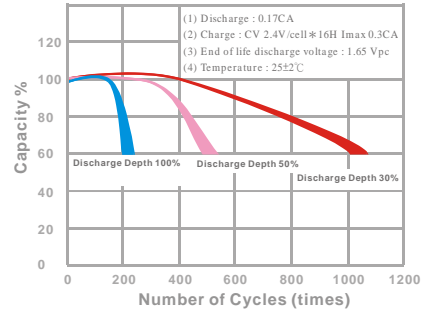
Capacity Retention Characteristic



Trickle (or float) Service Life



Cycle Service Life



### - PERFORMANCE DATA

Discharge Rates in Watts to Various End Voltages at 25°C (77°F)

End Voltage		1.85V	1.80V	1.75V	1.70V	1.65V	1.60V
5	min	161	169	181	185	190	197
10	min	82.5	92.0	99.0	102	105	108
15	min	70.0	72.0	74.5	76.5	78.5	80.5
30	min	44.5	45.1	45.5	45.8	46.3	46.9
60	min	23.5	24.0	24.5	24.8	25.0	25.4
120	min	15.4	15.6	16.1	16.3	16.4	16.7
180	min	9.8	10.2	10.8	11.0	11.1	11.3
240	min	7.50	7.73	8.11	8.27	8.38	8.64
300	min	6.27	6.50	6.90	7.06	7.12	7.28
600	min	3.64	3.81	4.02	4.07	4.13	4.18
1200	min	1.90	2.02	2.17	2.22	2.27	2.32

### - Discharge Rates in Amperes to Various End Voltages at 25°C (77°F)

End Voltage		1.85V	1.80V	1.75V	1.70V	1.65V	1.60V
5	min	28.8	30.2	32.4	33.1	34.0	35.2
10	min	16.2	17.0	18.2	18.6	19.1	19.8
15	min	12.5	13.1	13.6	13.9	14.1	14.5
30	min	6.56	6.88	7.14	7.30	7.40	7.61
60	min	3.90	4.08	4.31	4.37	4.42	4.48
120	min	2.05	2.14	2.26	2.29	2.32	2.35
180	min	1.63	1.70	1.79	1.82	1.84	1.87
240	min	1.30	1.36	1.44	1.46	1.47	1.49
300	min	1.11	1.16	1.22	1.24	1.25	1.27
600	min	0.65	0.68	0.72	0.73	0.74	0.75
1200	min	0.34	0.36	0.38	0.38	0.39	0.39

All data on the spec. sheet is an average value:

The tolerance range : X<6min (+15%~-15%), 6min ≤ X < 10min (+12%~-12%), 10min ≤ X < 60min (+8%~-8%), X ≥ 60min (+5%~-5%)