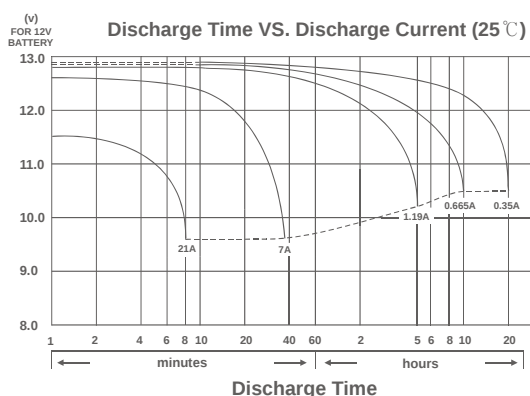
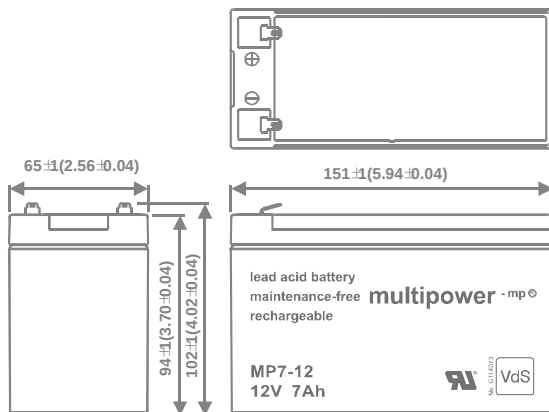
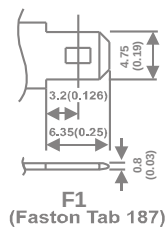


multipower - mp[®]

RECHARGEABLE SEALED LEAD ACID BATTERY

SPECIFICATION



MP7-12

Nominal Voltage (V) 12V

Nominal Capacity

20 hour rate	(0.35A	to	10.50V)	7.00Ah
10 hour rate	(0.665A	to	10.50V)	6.65Ah
5 hour rate	(1.19A	to	10.20V)	5.95Ah
1 C	(7A	to	9.60V)	4.43Ah
3 C	(21A	to	9.60V)	2.80Ah
15 min rate	(168W	to	9.60V)	42Wh

Weight Approx. 2.2kg (4.85lbs)

Internal Resistance (at 1KHz) Approx. 19 mΩ

Maximum Discharge Current for 5 seconds: 105A

Charging Methods at 25°C (77°F)

Cycle use:

Charging Voltage 14.70V to 14.80V

Coefficient -5.0mV/°C/cell

Maximum Charging Current : 2.1A

Standby use:

Float Charging Voltage 13.50V 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%

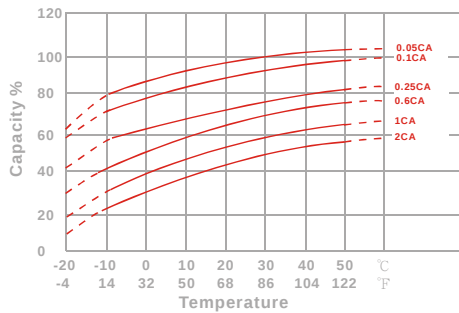
Case Material ABS

(UL94 HB flame retardant case / cover)

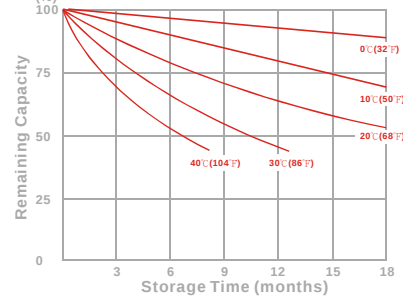
Terminal F1 (Faston Tab 187)

CHARACTERISTIC & PERFORMANCE DATA

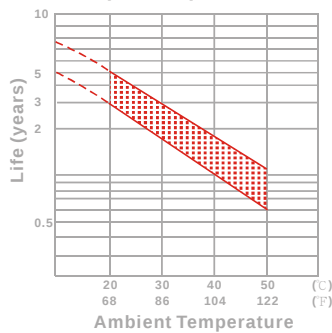
Effect of Temperature on Capacity 25°C(77°F)



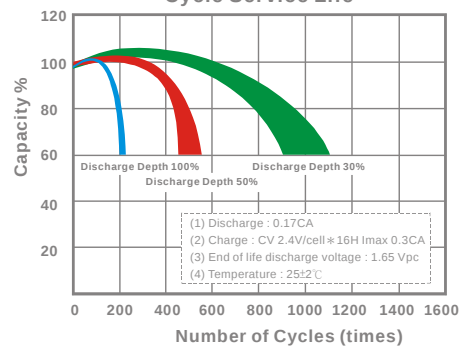
Capacity Retention Characteristic



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	1.67V	1.65V	1.60V
Time								
5	min	263	282	294	306	311	317	326
10	min	180	191	199	206	209	213	219
15	min	144	151	155	159	161	164	168
30	min	72.4	77.6	81.5	84.6	85.5	86.4	87.5
60	min	46.2	50.3	51.8	53.2	53.8	54.5	55.4
120	min	24.6	27.1	28.3	29.5	29.9	30.4	31.2
180	min	18.5	19.9	20.9	21.7	22.0	22.3	22.8
240	min	17.1	17.6	18.0	18.3	18.4	18.6	18.9
300	min	14.8	15.2	15.5	15.7	15.8	15.9	16.1
600	min	8.16	8.39	8.51	8.59	8.62	8.66	8.72
1200	min	4.14	4.23	4.31	4.37	4.39	4.42	4.46

- 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	23.1	26.2	27.8	29.1	29.6	30.5	31.7
10	min	16.1	17.3	18.1	18.6	18.9	19.2	19.8
15	min	12.6	13.1	13.5	13.8	14.0	14.1	14.3
30	min	6.54	7.05	7.28	7.47	7.56	7.68	7.85
60	min	4.02	4.25	4.41	4.52	4.58	4.63	4.71
120	min	2.26	2.38	2.45	2.49	2.51	2.54	2.57
180	min	1.65	1.74	1.79	1.82	1.83	1.85	1.88
240	min	1.35	1.40	1.44	1.47	1.49	1.51	1.53
300	min	1.10	1.16	1.21	1.25	1.27	1.28	1.29
600	min	0.667	0.675	0.682	0.687	0.690	0.694	0.698
1200	min	0.339	0.346	0.350	0.353	0.355	0.357	0.359

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%)