

RECHARGEABLE SEALED LEAD ACID BATTERY

SPECIFICATION



MP10-12C

Nominal Voltage (V) 12V

Nominal Capacity

20 hour rate	(0.5A to 10.50V)	10.00Ah
10 hour rate	(0.95A to 10.50V)	9.50Ah
5 hour rate	(1.7A to 10.20V)	8.50Ah
1 C	(10A to 9.60V)	6.33Ah
3 C	(30A to 9.60V)	4.00Ah

Weight Approx. 3.3kg (7.26lbs)

Internal Resistance (at 1KHz) Approx. 12 mΩ

Maximum Discharge Current for

5 seconds: 150A

Charging Methods at 25°C (77°F)

Cycle use:	
Charging Voltage	14.70V to 14.80V
Coefficient -5.0mv/°C/cell	
Maximum Charging Current:	3.0A
Standby use:	
Float Charging Voltage	13.50V to 13.80V
Coefficient -3.0mv/°C/cell	

Operating Temperature Range

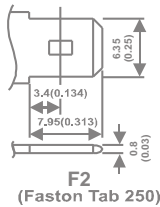
Charge	-15°C (5°F) to 40°C (104°F)
Discharge	-15°C (5°F) to 50°C (122°F)
Storage	-15°C (5°F) to 40°C (104°F)

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

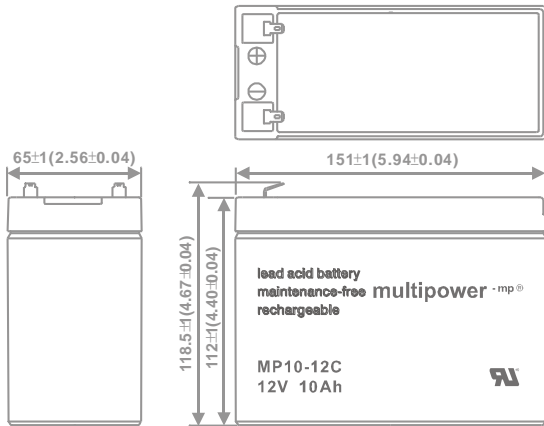
1 month	92%
3 month	90%
6 month	80%

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

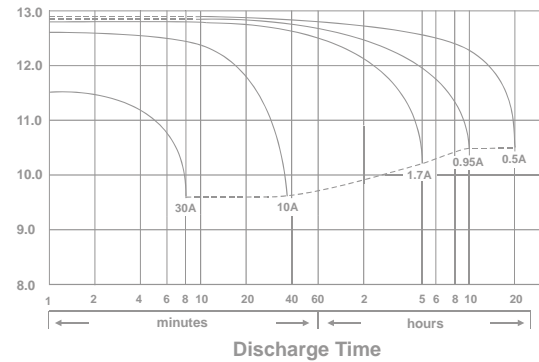
Terminal F2 (Faston Tab 250)



F2
(Faston Tab 250)

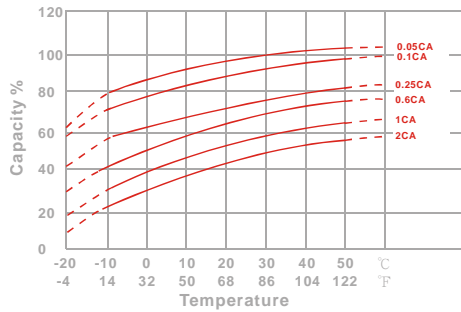


(V) FOR 12V BATTERY
Discharge Time VS. Discharge Current (25°C)

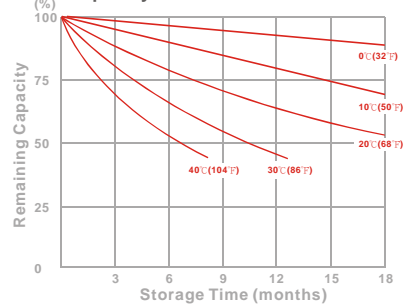


CHARACTERISTIC & PERFORMANCE DATA

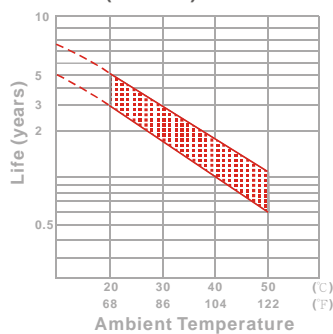
Effect of Temperature on Capacity 25°C (77°F)



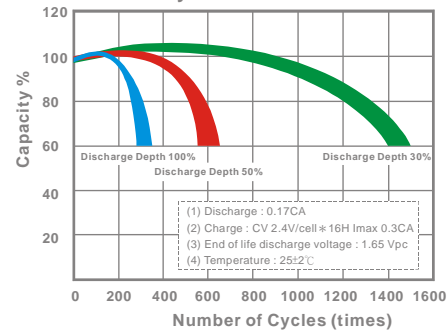
Capacity Retention Characteristic



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	298	343	361	376	382	388	395
10	min	226	247	258	266	269	273	278
15	min	175	188	196	202	205	208	211
30	min	110	115	118	120	122	123	124
60	min	62.6	67.3	69.8	71.2	71.8	72.5	73.3
120	min	35.3	38.6	40.3	41.5	42.0	42.6	43.2
180	min	27.4	29.7	31.2	32.3	32.6	33.1	33.6
240	min	22.7	23.5	24.1	24.6	24.8	25.1	25.4
300	min	19.9	20.5	20.9	21.2	21.4	21.6	21.8
600	min	11.5	11.8	12.1	12.4	12.5	12.6	12.8
1200	min	6.36	6.55	6.68	6.87	6.92	6.96	7.03

- 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	24.6	29.3	32.7	34.1	34.9	35.6	36.1
10	min	21.4	24.1	25.6	26.7	27.1	27.6	28.3
15	min	15.6	17.2	18.4	19.1	19.5	19.9	20.4
30	min	10.7	11.3	11.8	12.2	12.4	12.6	12.8
60	min	5.69	6.03	6.26	6.45	6.58	6.63	6.69
120	min	3.24	3.39	3.48	3.56	3.59	3.62	3.67
180	min	2.55	2.63	2.68	2.72	2.74	2.76	2.79
240	min	1.96	2.01	2.05	2.08	2.09	2.11	2.12
300	min	1.69	1.72	1.74	1.76	1.77	1.78	1.79
600	min	0.974	1.00	1.02	1.04	1.05	1.06	1.07
1200	min	0.525	0.527	0.532	0.536	0.538	0.541	0.544

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%)