

RECHARGEABLE SEALED LEAD ACID BATTERY

SPECIFICATION



MP10-12S (Artikel-Nr. 2003912)

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)	5.66Ah
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

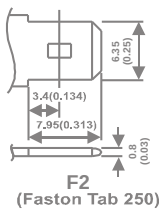
Charge	-15°C (5°F) to 40°C (104°F)
Discharge	-15°C (5°F) to 50°C (122°F)
Storage	-15°C (5°F) to 40°C (104°F)

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

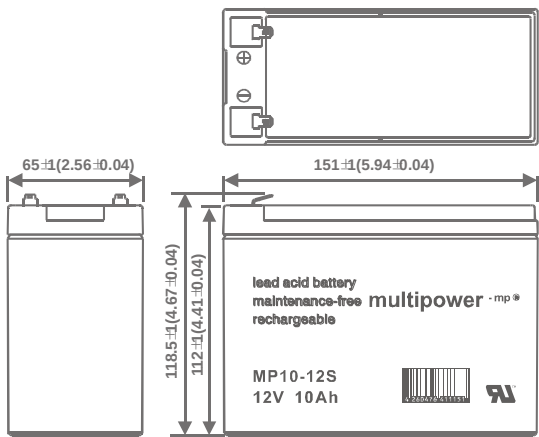
1 month	92%
3 month	90%
6 month	80%

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

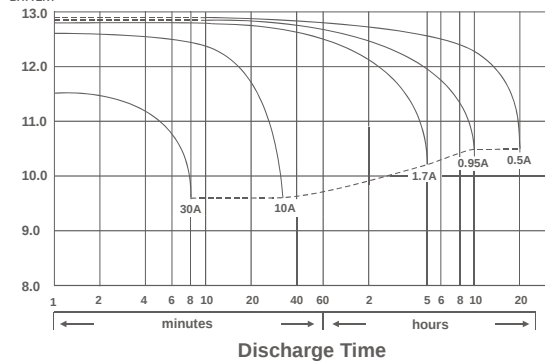
Terminal F2 (Faston Tab 250)



F2
(Faston Tab 250)

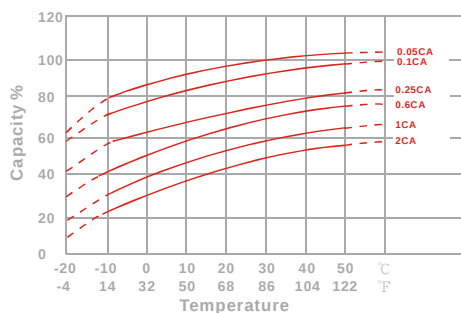


(V) FOR 12V BATTERY
Discharge Time VS. Discharge Current (25°C)

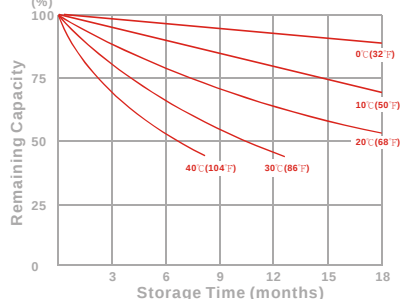


CHARACTERISTIC & PERFORMANCE DATA

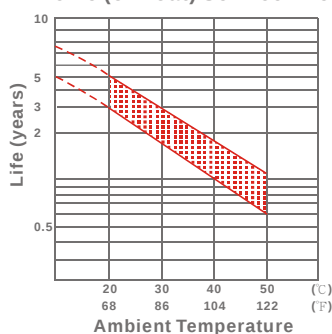
Effect of Temperature on Capacity 25°C (77°F)



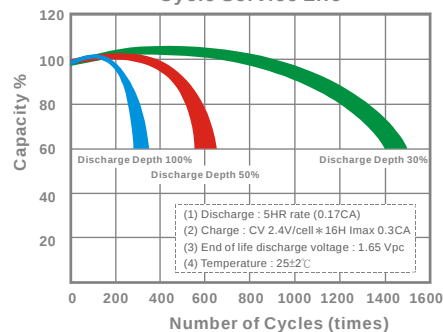
Capacity Retention Characteristic



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
Time								
5	min	49.7	57.2	60.2	62.7	63.7	64.7	65.8
10	min	37.7	41.2	43.0	44.3	44.8	45.5	46.3
15	min	29.2	31.3	32.7	33.7	34.2	34.7	35.2
30	min	18.3	19.2	19.7	20.0	20.3	20.5	20.7
60	min	10.4	11.2	11.6	11.9	12.0	12.1	12.2
120	min	5.88	6.43	6.72	6.92	7.00	7.10	7.20
180	min	4.57	4.95	5.20	5.38	5.43	5.52	5.60
240	min	3.78	3.92	4.02	4.10	4.13	4.18	4.23
300	min	3.32	3.42	3.48	3.53	3.57	3.60	3.63
600	min	1.92	1.97	2.02	2.07	2.08	2.10	2.13
1200	min	1.06	1.09	1.11	1.15	1.15	1.16	1.17

- 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	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%)