

RECHARGEABLE SEALED LEAD ACID BATTERY

SPECIFICATION



MP3,3-12

Nominal Voltage(V) 12V

Nominal Capacity

15 min rate	(78W to 9.60V)	19.5Wh
5 hour rate	(0.561A to 10.20V)	2.805Ah
1 C	(3.3A to 9.60V)	2.09Ah
3 C	(9.9A to 9.60V)	1.32Ah

Weight Approx. 1.3kg(2.86Lbs.)

Internal Resistance (at 1KHz) Approx. 14 mΩ

Maximum Discharge Current for

5 seconds: 49.5A

Charging Methods at 25° (77°)

Cycle use:
 Charging Voltage 14.4 to 15.0V
 Coefficient -5.0mv/° /cell
 Maximum Charging Current • 0.99A
 Standby use:
 Float Charging Voltage 13.50 to 13.80V
 Coefficient -3.0mv/° /cell

Operating Temperature Range

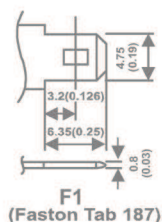
Charge -15° (5°) to 40° (104°)
 Discharge -15° (5°) to 50° (122°)
 Storage -15° (5°) to 40° (104°)

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

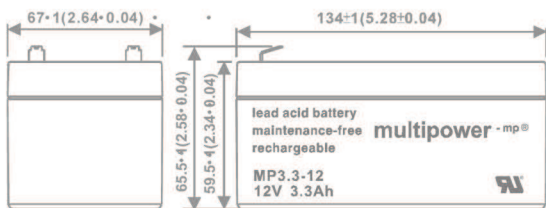
1 month 92° •
 3 month 90° •
 6 month 80° •

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

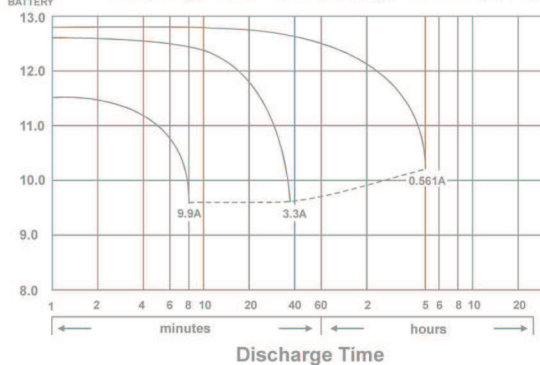
Terminal F1(Faston Tab 187)



F1 (Faston Tab 187)

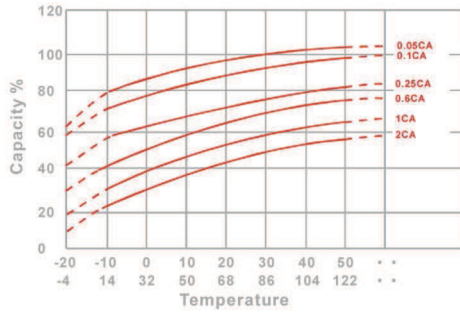


(V) FOR 12V BATTERY Discharge Time VS. Discharge Current (25°)

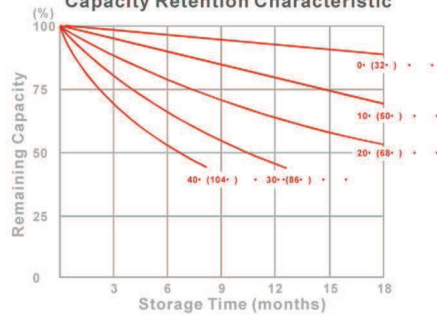


CHARACTERISTIC & PERFORMANCE DATA

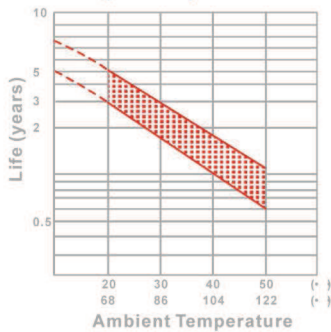
Effect of Temperature on Capacity 25 (77))



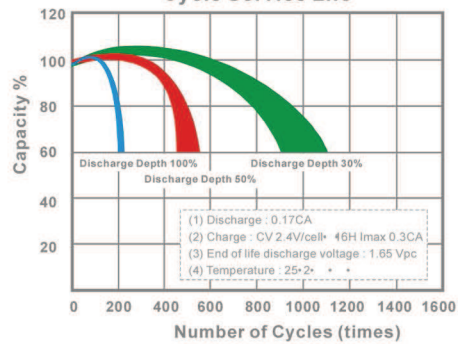
Capacity Retention Characteristic



Trickle (or float) Service Life



Cycle Service Life



- PERFORMANCE DATA

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

End Voltage		1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
Time								
5	min	112	123	132	139	141	144	147
10	min	79.4	86.3	90.2	93.9	95.4	97.1	99.5
15	min	67.7	71.9	73.8	75.7	76.4	77.2	78.1
30	min	33.7	36.5	38.1	39.4	39.9	40.5	41.2
60	min	19.5	20.8	21.9	22.8	23.1	23.5	23.8
120	min	11.5	12.2	12.9	13.4	13.5	13.7	13.9
180	min	8.92	9.28	9.67	10.0	10.1	10.2	10.3
240	min	7.53	7.82	7.98	8.11	8.16	8.22	8.29
300	min	6.57	6.78	6.92	7.01	7.04	7.08	7.13
600	min	4.84	4.97	4.03	4.08	4.10	4.13	4.16
1200	min	1.98	2.07	2.13	2.18	2.19	2.21	2.23

- Discharge Rates in Amperes to Various End Voltages at 25 (77))

End Voltage		1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
Time								
5	min	12.8	13.4	13.8	14.1	14.2	14.4	14.5
10	min	7.96	8.33	8.52	8.68	8.74	8.81	8.89
15	min	6.08	6.29	6.40	6.49	6.52	6.56	6.61
30	min	3.22	3.36	3.44	3.50	3.52	3.54	3.56
60	min	1.85	1.94	1.98	2.01	2.02	2.03	2.04
120	min	1.01	1.08	1.11	1.13	1.14	1.15	1.16
180	min	0.732	0.781	0.806	0.827	0.834	0.842	0.851
240	min	0.597	0.625	0.646	0.661	0.666	0.672	0.680
300	min	0.509	0.541	0.557	0.570	0.574	0.579	0.585
600	min	0.304	0.321	0.330	0.336	0.338	0.341	0.343
1200	min	0.156	0.165	0.171	0.176	0.178	0.180	0.182

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%)