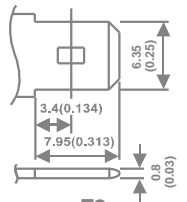
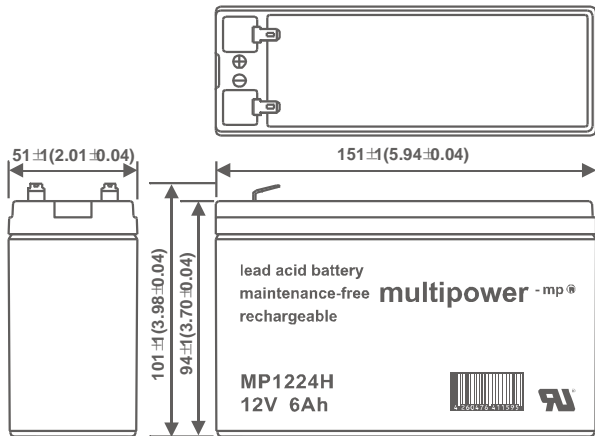


RECHARGEABLE SEALED LEAD ACID BATTERY

SPECIFICATION

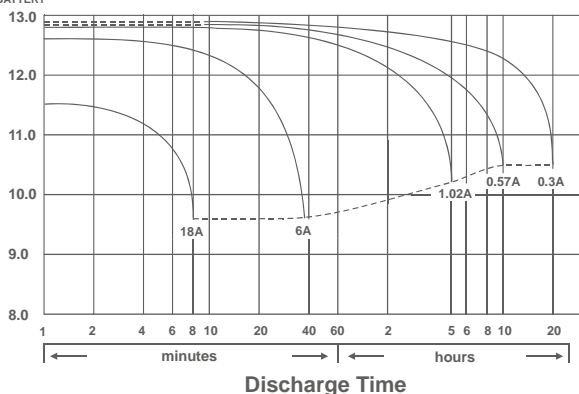


F2
(Faston Tab 250)



(V)
FOR 12V
BATTERY

Discharge Time VS. Discharge Current (25°C)



MP1224H

Nominal Voltage(V) 12V

Nominal Power

15 mins rate: 24W/cell to 1.60V/cell

Nominal Capacity

20 hour rate	(0.3A	to	10.50V)	6.00Ah
10 hour rate	(0.57A	to	10.50V)	5.70Ah
5 hour rate	(1.02A	to	10.20V)	5.10Ah
1 C	(6A	to	9.60V)	3.80Ah
3 C	(18A	to	9.60V)	2.40Ah

Weight Approx. 1.95kg (4.29Lbs.)

Internal Resistance (at 1KHz) Approx. 16 mΩ

Maximum Discharge Current for

5 seconds: 90A

Charging Methods at 25°C (77°F)

Cycle use:

Charging Voltage 14.7 to 14.8V

Coefficient -5.0mV/°C/cell

Maximum Charging Current: 1.8A

Standby use:

Float Charging Voltage 13.5 to 13.8V

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

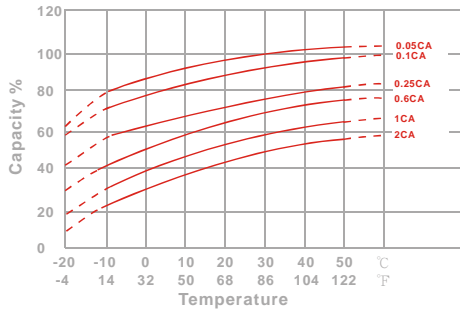
ABS UL94 HB

Terminal

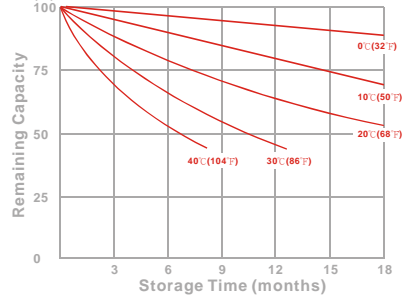
F2 (Faston Tab 250)

CHARACTERISTIC & PERFORMANCE DATA

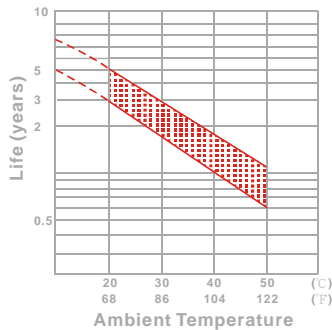
Effect of Temperature on Capacity 25°C (77°F)



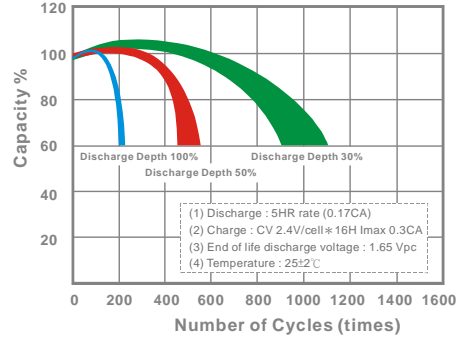
Capacity Retention Characteristic



Trickle (or float) Service Life



Cycle Service Life



- PERFORMANCE DATA

Discharge Rates in Watts per Cell 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	37.8	43.7	47.3	50.4	51.3	52.4	54.0
8	min	28.0	32.5	35.7	38.0	39.0	39.8	41.0
10	min	25.7	29.2	31.3	33.0	33.9	34.3	35.3
15	min	20.3	22.4	23.8	25.0	25.3	25.8	26.3
20	min	16.3	17.7	19.0	19.9	20.2	20.5	20.8
30	min	13.3	14.3	14.8	15.2	15.4	15.6	15.9
60	min	7.20	7.73	8.03	8.30	8.38	8.48	8.64
120	min	4.40	4.65	4.87	5.02	5.07	5.13	5.22
300	min	2.01	2.14	2.22	2.29	2.31	2.34	2.37
600	min	1.26	1.29	1.30	1.31	1.32	1.32	1.33
1200	min	0.688	0.700	0.709	0.717	0.720	0.723	0.726

- Discharge Rates in Amperes per Battery 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	19.1	22.6	24.9	27.0	27.7	28.6	29.8
8	min	17.0	18.8	19.9	20.8	21.1	21.5	22.1
10	min	14.2	15.7	16.8	17.7	18.0	18.4	19.0
15	min	11.3	12.2	12.9	13.4	13.6	13.7	13.9
20	min	9.71	10.2	10.3	10.7	10.9	11.0	11.2
30	min	6.78	7.19	7.46	7.69	7.78	7.90	8.07
60	min	3.63	3.85	4.00	4.13	4.19	4.24	4.32
120	min	1.88	2.01	2.12	2.21	2.25	2.29	2.34
300	min	0.961	1.032	1.071	1.097	1.108	1.12	1.13
600	min	0.593	0.612	0.619	0.626	0.628	0.631	0.636
1200	min	0.319	0.327	0.332	0.337	0.339	0.341	0.343

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%)