

**multipower MP7,2-12/7,2-12B**  
**VdS-No. G103083**  
**RECHARGEABLE SEALED LEAD ACID BATTERY**

## Specifications

**Nominal Voltage (V)** 12V

**Nominal Capacity**

20hour rate ( 0.36A	to	10.50V )	7.2Ah
10hour rate ( 0.72A	to	10.50V )	7.2Ah
5hour rate ( 1.22A	to	10.20V )	6.12Ah
1C ( 7.2A	to	9.60V )	3.24Ah
3C ( 21.6A	to	9.60V )	2.59Ah

**Weight** 2.678kg(5.91Lbs.)

**Internal Resistance (at 1KHz)** 19 mΩ

**Maximum Discharge Current for 30 seconds :** 144A

**Maximum Discharge Current for 5 seconds :** 288A

**Operating Temperature Range**

Charge	0°C (32°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%

**Charging Methods at 25°C (77°F)**

**Cycle use:**

Charging Voltage 14.4 to 15.0V  
 Maximum Charging Current : 2.16A

**Standby use :**

Float Charging Voltage 13.50 to 13.80V

**Life expectancy :**

**Cycle Use :**

100% depth of discharge 200 cycles  
 80% depth of discharge 225 cycles  
 50% depth of discharge 500 cycles

**Standby Use :** 3~5years

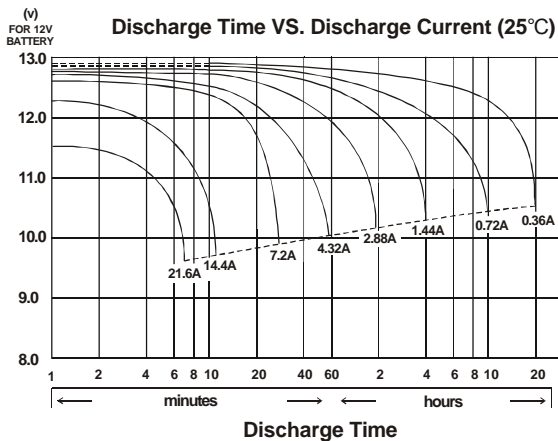
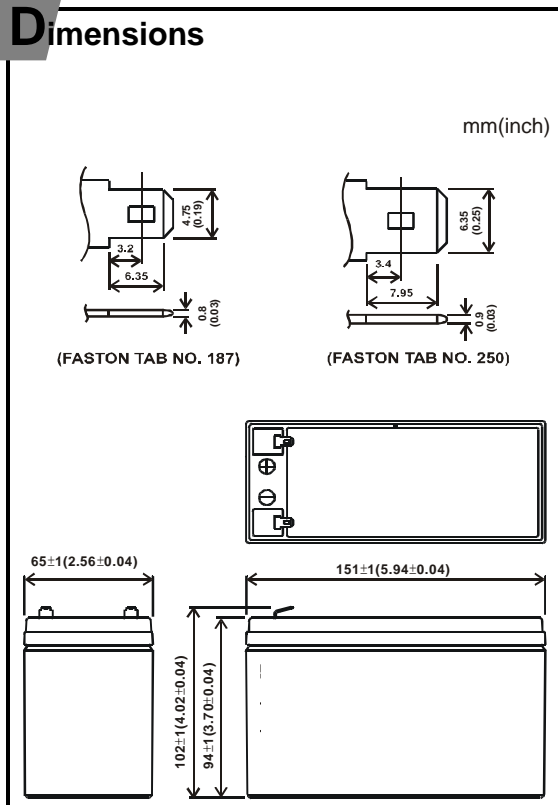
**Case Material** ABS

(Option : 94-HB & 94V-0 flame retardant case)

**Terminal** MP7,2-12 = Faston 187

MP7,2-12B = Faston 250

## Dimensions



**multipower MP7,2-12/7,2-12B**  
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**PERFORMANCE DATA**

**Discharge Rates in Watts to Various End Voltages at 25°C**

Time \ End Voltage	11.40V	11.10V	10.80V	10.50V	10.20V	9.90V	9.60V
1 min	400	480	520	545	565	580	600
2 min	340	360	385	410	440	465	490
3 min	285	320	360	390	405	415	425
5 min	215	245	255	280	305	330	345
7 min	184	213	240	246	254	262	270
10 min	157	177	195	208	217	224	227
15 min	130	143	154	161	167	170	172
20 min	112	123	130	135	138	139	141
30 min	87.3	94.5	100	103	104	105	106
60 min	54.0	58.2	60.5	61.4	61.9	62.3	62.3
90 min	40.5	43.1	44.4	45.0	45.3	45.4	45.4
120 min	32.1	34.3	35.4	35.8	36.1	36.1	36.1
180 min	23.1	24.5	25.2	25.5	25.7	25.7	25.7
240 min	18.3	19.4	19.9	20.1	20.2	20.2	20.3
300 min	15.2	16.1	16.6	16.8	16.8	16.9	16.9
360 min	13.1	13.9	14.3	14.4	14.5	14.5	14.6
480 min	10.4	11.0	11.3	11.4	11.5	11.5	11.5
600 min	8.53	9.10	9.36	9.46	9.51	9.54	9.56
1200 min	4.56	4.89	5.04	5.10	5.13	5.14	5.15

**Discharge Rates in Amperes to Various End Voltages at 25°C**

End Voltage \ Time	11.40V	11.10V	10.80V	10.50V	10.20V	9.90V	9.60V
1 min	31.5	38.0	43.8	48.8	51.9	55.4	57.8
2 min	27.6	32.2	36.9	40.8	44.5	46.4	48.7
3 min	24.4	28.6	32.1	36.0	38.0	39.9	42.0
5 min	20.4	23.5	26.5	28.7	30.2	31.5	33.4
10 min	15.0	17.1	18.6	19.7	20.5	21.0	21.3
15 min	12.0	13.3	14.4	15.1	15.6	15.8	15.9
20 min	10.0	11.1	11.9	12.4	12.6	12.7	12.8
25 min	8.68	9.52	10.1	10.4	10.6	10.7	10.8
30 min	7.66	8.40	8.81	9.10	9.24	9.32	9.35
35 min	6.86	7.48	7.84	8.08	8.20	8.27	8.27
45 min	5.66	6.18	6.46	6.63	6.69	6.70	6.75
60 min	4.44	4.83	5.07	5.18	5.22	5.25	5.28
90 min	3.09	3.37	3.52	3.59	3.62	3.64	3.65
120 min	2.44	2.62	2.73	2.77	2.79	2.80	2.82
180 min	1.75	1.86	1.92	1.95	1.97	1.97	1.98
240 min	1.38	1.45	1.50	1.52	1.53	1.54	1.55
300 min	1.15	1.20	1.24	1.26	1.26	1.27	1.27
480 min	0.78	0.81	0.82	0.84	0.84	0.84	0.85
600 min	0.65	0.67	0.68	0.69	0.69	0.70	0.70
1200 min	0.35	0.36	0.36	0.36	0.36	0.37	0.37