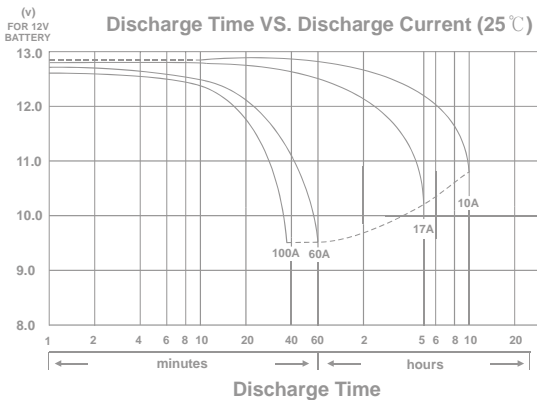
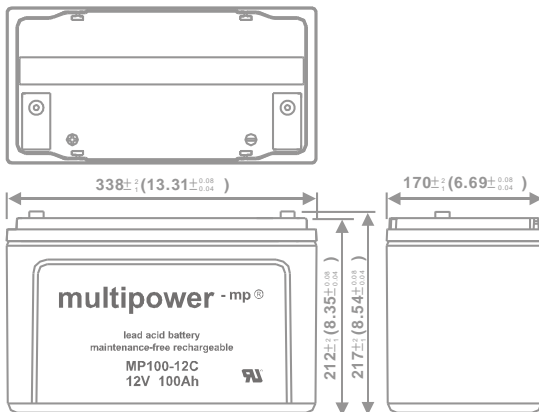
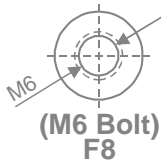


# multipower - mp<sup>®</sup>

## RECHARGEABLE SEALED LEAD ACID BATTERY

## SPECIFICATION



### MP100-12C

Nominal Voltage (V) 12V

#### Nominal Capacity

10 hour rate	(10A	to	10.80V)	100.00Ah
5 hour rate	(17A	to	10.20V)	85.00Ah
1 hour rate	(60A	to	9.60V)	60.00Ah
1 C	(100A	to	9.60V)	63.33Ah

Weight Approx. 32.5kg (71.6Lbs.)

Internal Resistance (at 1KHz) Approx. 4.6 mΩ

#### Maximum Discharge Current for

5 seconds: 1200A

#### Charging Methods at 25°C (77°F)

Cycle use:

Charging Voltage 14.7 to 14.8V

Coefficient -5.0mV/°C/cell

Maximum Charging Current: 30A

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 98%

3 month 94%

6 month 85%

#### Case Material

(UL94 HB flame retardant case / cover)

ABS

#### Terminal

F8

#### Description of torque value of hard ware for the terminals:

Recommended torque value

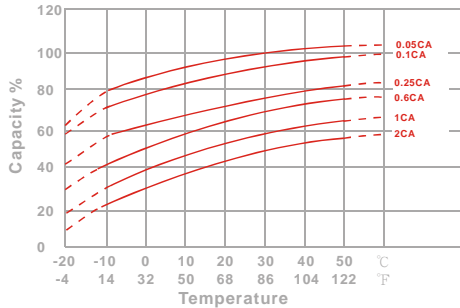
M6: 5.39 N·m (55kg·cm)

Maximum allowable torque value

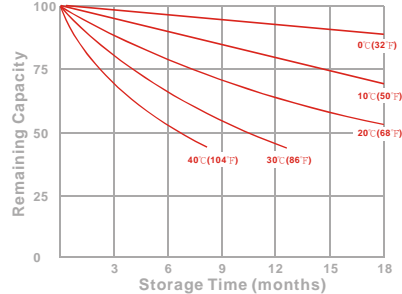
M6: 8.82 N·m (90kg·cm)

## CHARACTERISTIC & PERFORMANCE DATA

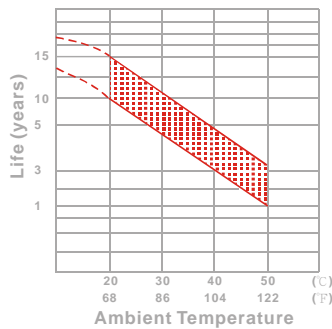
Effect of Temperature on Capacity 25°C (77°F)



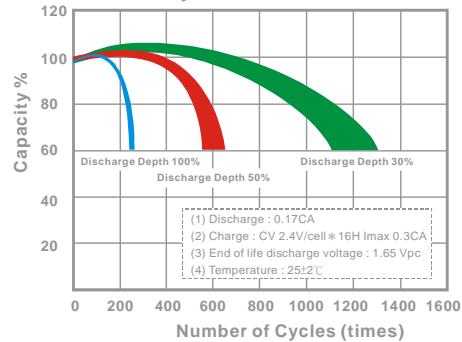
Capacity Retention Characteristic



Trickle (or float) Service Life



Cycle Service Life



### - PERFORMANCE DATA

Discharge Rates in Watts per Battery to Various End Voltages at 25°C (77°F)

Time	End Voltage	Discharge Rates (Watts)						
		1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
5	min	2841	3163	3384	3595	3692	3794	3986
10	min	2064	2258	2417	2569	2634	2708	2839
15	min	1627	1774	1886	1994	2042	2093	2184
30	min	959	1023	1077	1128	1149	1176	1218
60	min	694	721	739	756	763	772	783
90	min	473	499	517	534	541	550	562
120	min	378	397	412	421	427	434	443
180	min	287	303	314	325	329	334	341
240	min	212	225	237	249	253	258	264
300	min	193	202	210	216	218	221	225
600	min	115	122	127	132	134	136	138
1200	min	63.2	65.4	67.1	68.3	68.8	69.4	70.2

- Discharge Rates in Amperes per Battery to Various End Voltages at 25°C (77°F)

Time	End Voltage	Discharge Rates (Amperes)						
		1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
5	min	209	274	312	343	353	365	382
10	min	157	186	207	224	232	241	255
15	min	116	143	162	176	181	187	195
30	min	62.3	74.7	83.1	91.7	93.9	97.3	102.0
60	min	43.2	51.4	57.1	61.2	62.1	63.6	65.5
90	min	31.5	36.6	40.4	43.6	44.5	45.6	47.2
120	min	24.1	28.2	31.4	34.5	35.3	36.2	37.4
180	min	20.7	23.1	24.9	26.4	26.9	27.5	28.3
240	min	16.6	18.4	19.7	20.6	20.9	21.3	21.8
300	min	15.3	16.5	17.4	17.9	18.1	18.3	18.6
600	min	10.1	10.4	10.6	10.8	10.9	11.1	11.3
1200	min	5.08	5.25	5.42	5.54	5.59	5.65	5.73

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%)