

multipower - mp ®

RECHARGEABLE SEALED LEAD ACID BATTERY

SPECIFICATION



MPC26-12I

Nominal Voltage(V) 12V

Nominal Capacity

20 hour rate	(1.30A	to	10.50V)	26.00Ah
10 hour rate	(2.47A	to	10.50V)	24.70Ah
5 hour rate	(4.42A	to	10.20V)	22.10Ah
1 C	(26A	to	9.60V)	14.73Ah
3 C	(78A	to	9.60V)	10.40Ah

Weight Approx. 9.3kg (20.5Lbs.)

Internal Resistance (at 1KHz) Approx. 11 mΩ

Maximum Discharge Current for

5 seconds: 390A

Charging Methods at 25°C (77°F)

Cycle use:

Charging Voltage 14.7 to 14.8V

Coefficient -5.0mV/°C/cell

Maximum Charging Current: 7.8A

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%

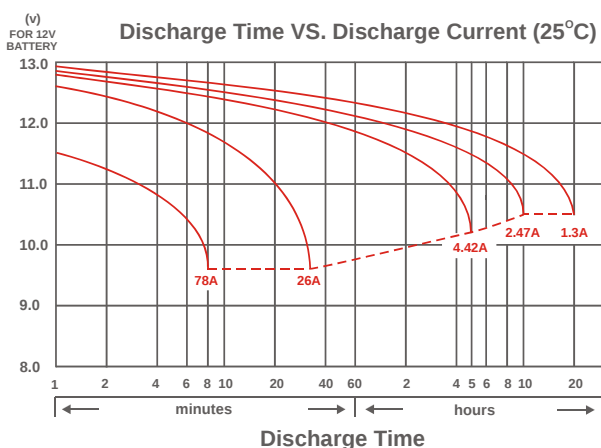
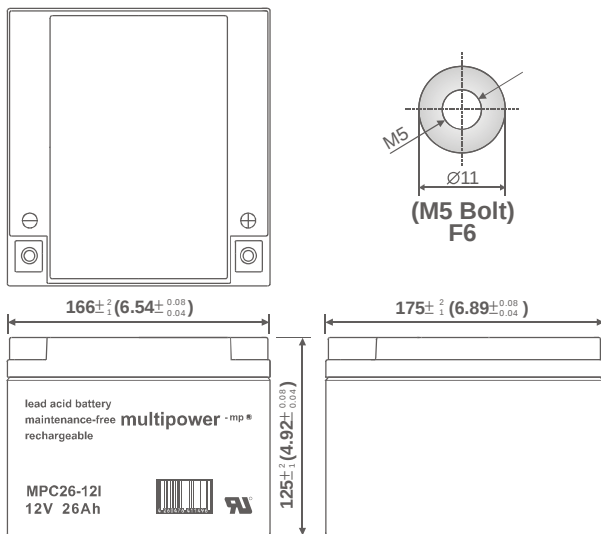
Case Material ABS UL94 HB

Terminal F6

Description of torque value of hard ware for the terminals:

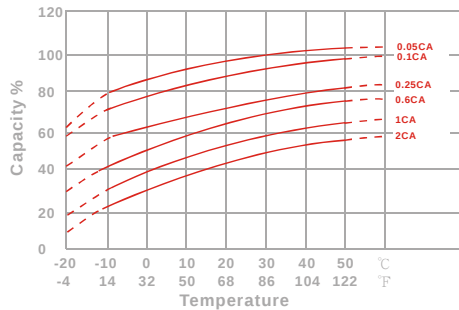
Recommended torque value M5: 4 N·m (41 kgf·cm)

Maximum allowable torque value M5: 6 N·m (61 kgf·cm)

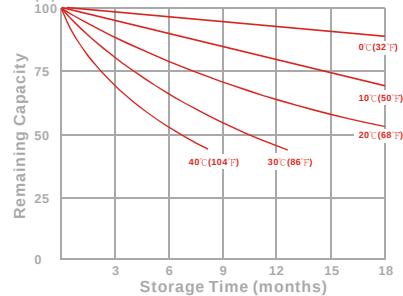


CHARACTERISTIC & PERFORMANCE DATA

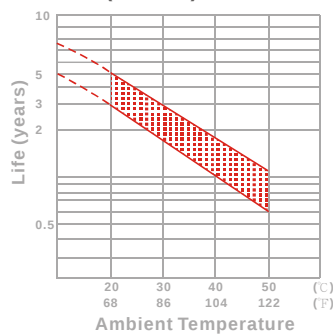
Effect of Temperature on Capacity 25°C(77°F)



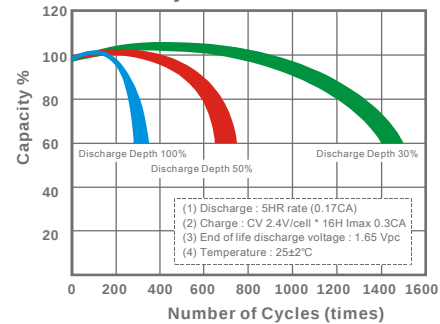
Capacity Retention Characteristic



Trickle (or float) Service Life



Cycle Service Life



- PERFORMANCE DATA

Discharge Rates in Watts per 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
Time								
5	min	139	155	166	177	183	188	199
10	min	103	110	116	121	124	127	131
15	min	73.8	80.8	85.5	89.4	91.3	93.1	96.5
30	min	39.7	42.8	45.7	47.7	48.5	49.3	50.3
60	min	28.2	29.8	31.2	32.2	32.5	32.8	33.2
120	min	18.3	19.2	19.7	20.2	20.3	20.6	20.7
180	min	12.6	12.9	13.1	13.3	13.4	13.5	13.5
240	min	10.2	10.4	10.6	10.7	10.8	10.8	10.9
300	min	8.60	8.65	8.82	8.95	9.01	9.05	9.11
600	min	5.02	5.15	5.25	5.32	5.35	5.38	5.42
1200	min	2.58	2.67	2.74	2.78	2.80	2.82	2.83

- 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
Time								
5	min	73.8	85.2	94.8	102	105	107	110
10	min	53.9	60.2	63.3	66.2	68.3	70.2	72.6
15	min	38.4	43.8	47.1	49.8	51.5	52.1	53.3
30	min	22.2	24.6	25.9	27.2	27.9	28.4	29.4
60	min	14.9	15.7	16.2	16.6	16.8	17.0	17.2
120	min	9.16	9.43	9.62	9.83	9.92	10.0	10.1
180	min	6.38	6.56	6.65	6.75	6.79	6.84	6.91
240	min	5.21	5.36	5.49	5.60	5.63	5.68	5.74
300	min	4.43	4.54	4.63	4.70	4.72	4.74	4.77
600	min	2.47	2.55	2.62	2.67	2.69	2.72	2.75
1200	min	1.26	1.32	1.37	1.41	1.43	1.44	1.46

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%)