

multipower - mp ®

RECHARGEABLE SEALED LEAD ACID BATTERY

SPECIFICATION



MP65-12S

Nominal Voltage (V) 12V

Nominal Capacity

20 hour rate	(3.25A	to	10.50V)	65.00Ah
10 hour rate	(6.175A	to	10.50V)	61.75Ah
5 hour rate	(11.05A	to	10.20V)	55.25Ah
1 C	(65A	to	9.60V)	36.83Ah
3 C	(195A	to	9.60V)	26.00Ah

Weight Approx. 22.4kg (49.38lbs)

Internal Resistance (at 1KHz) Approx. 5 mΩ

Maximum Discharge Current for

5 seconds: 780A

Charging Methods at 25°C (77°F)

Cycle use:

Charging Voltage 14.70V to 14.80V

Coefficient -5.0mV/°C/cell

Maximum Charging Current: 19.5A

Standby use:

Float Charging Voltage 13.50V to 13.80V

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

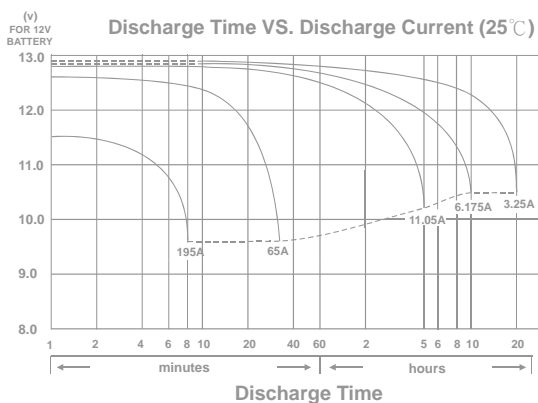
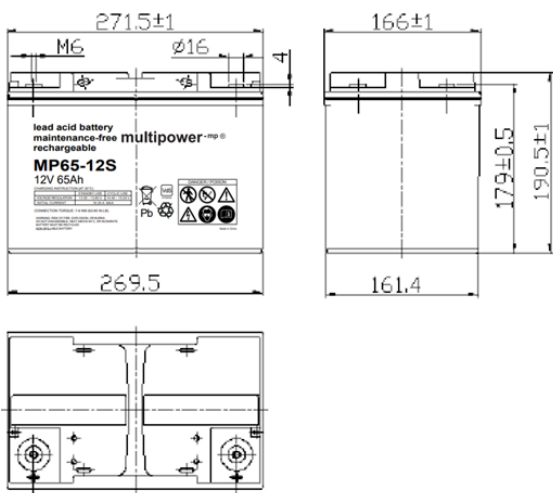
Terminal

F8

Description of torque value of hard ware for the terminals:

Recommended torque value M6: 7 N-m (71 kgf-cm)

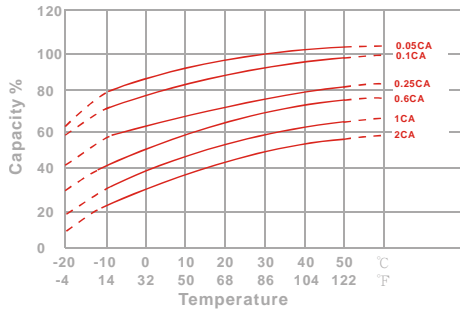
Maximum allowable torque value M6: 10 N-m (102 kgf-cm)



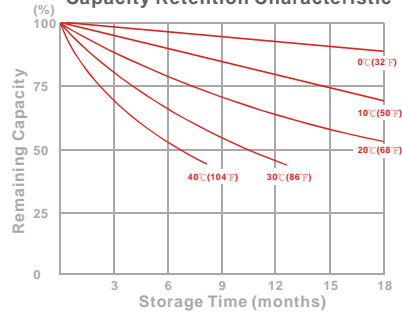
multipower - mp [®]

CHARACTERISTIC & PERFORMANCE DATA

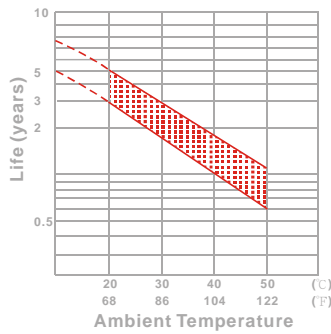
Effect of Temperature on Capacity 25°C (77°F)



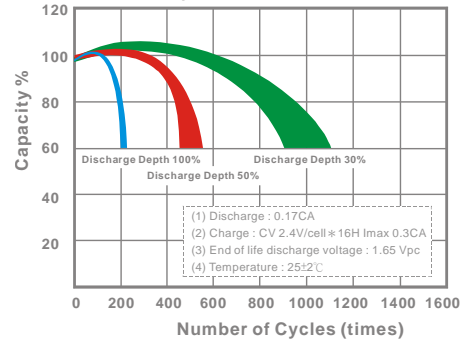
Capacity Retention Characteristic



Trickle (or float) Service Life



Cycle Service Life



- PERFORMANCE DATA

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

End voltage	5 min	10 min	15 min	20 min	30 min	45 min	1 hour	2 hrs	3 hrs	5 hrs	10 hrs	20 hrs
9.60 V	2190	1616	1254	1036	782	578	460	263	190	127	70.5	39.1
9.90 V	2089	1568	1228	1021	773	575	457	261	189	126	70.2	38.8
10.02 V	2025	1533	1216	1010	767	571	454	259	188	125	69.9	38.7
10.20 V	1961	1499	1203	998	761	567	452	257	187	124	69.6	38.6
10.50 V	1833	1434	1159	974	748	556	447	254	185	123	68.6	38.5
10.80 V	1671	1342	1104	933	721	539	436	249	181	119	67.1	38.1

Rates in Amperes to Various End Voltages at 25°C (77°F)

End voltage	5 min	10 min	15 min	20 min	30 min	45 min	1 hour	2 hrs	3 hrs	5 hrs	10 hrs	20 hrs
9.60 V	219	158	120	97.2	71.6	52.0	40.9	23.0	16.6	11.0	6.07	3.36
9.90 V	208	152	117	95.2	70.6	51.5	40.5	22.8	16.4	10.9	6.03	3.32
10.02 V	201	148	115	93.9	69.9	51.1	40.2	22.6	16.3	10.8	5.99	3.30
10.20 V	195	145	114	92.7	69.3	50.7	40.0	22.4	16.1	10.7	5.95	3.28
10.50 V	182	138	109	90.1	67.8	49.5	39.4	22.0	15.9	10.5	5.82	3.25
10.80 V	165	129	103	85.8	64.9	47.7	38.2	21.5	15.4	10.1	5.68	3.20

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%)