

multipower - mp®

RECHARGEABLE SEALED LEAD ACID BATTERY

SPECIFICATION



MPL150-12SI

Nominal Voltage(V) 12V

Nominal Capacity

10	hour rate	(15A	to	10.80V)	150.00Ah
5	hour rate	(25.5A	to	10.20V)	127.50Ah
1	hour rate	(90A	to	9.60V)	90.00Ah
1	C	(150A	to	9.60V)	95.00Ah

Weight Approx. 46.0kg (101.2Lbs.)

Internal Resistance (at 1KHz) Approx. 4 mΩ

Maximum Discharge Current for

5 seconds: 1500A

Charging Methods at 25°C (77°F)

Maximum Charging Current:	45A
Boost Charging Voltage	14.10 to 14.40V
Boost Charge Time	8-9Hr
Float Charging Voltage	13.50 to 13.65V
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 ABS UL94 HB

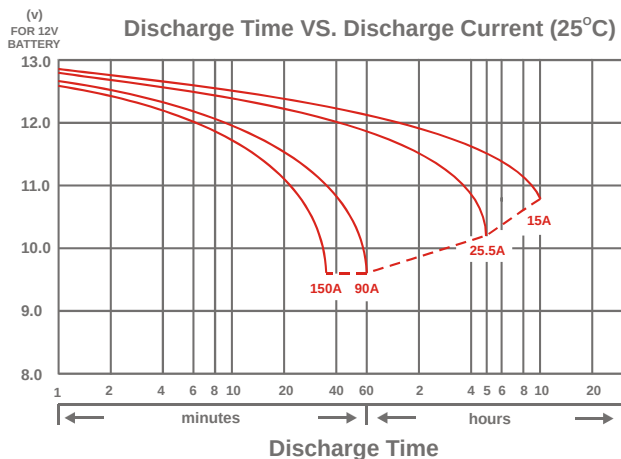
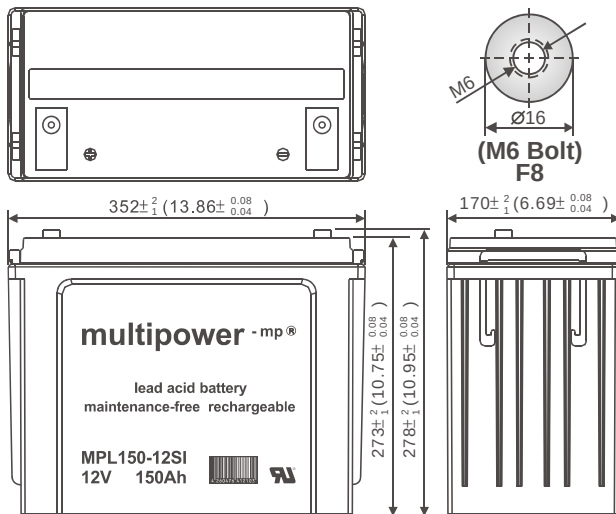
Terminal F18

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)

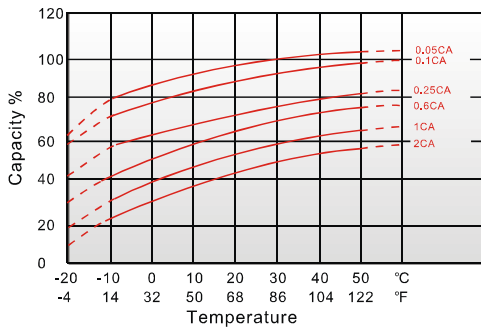
Design Life

Eurobat (20°C): 10/12 Years Long Life

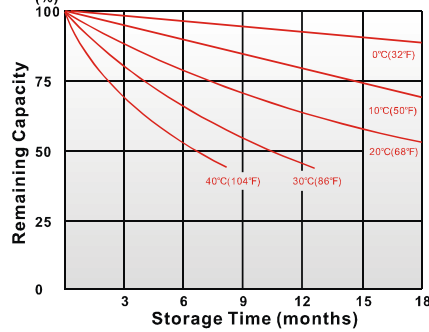


CHARACTERISTIC & PERFORMANCE DATA

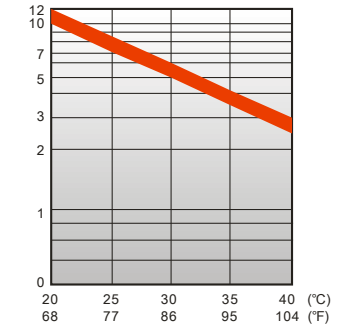
Effect of Temperature on Capacity 25°C(77°F)



Capacity Retention Characteristic



Trickle (or float) 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	561	626	682	731	755	779	826
10	min	501	546	572	597	609	622	645
15	min	443	468	487	505	513	522	537
30	min	259	272	282	292	296	300	308
60	min	155	164	170	174	176	177	179
120	min	83.8	89.0	91.8	94.2	95.2	96.5	98.5
180	min	68.7	73.2	75.5	77.7	78.7	79.8	81.3
240	min	56.0	59.0	60.8	62.2	62.7	63.3	64.3
300	min	48.2	50.2	51.5	52.7	53.0	53.5	54.2
600	min	28.5	29.7	30.7	31.5	31.7	32.2	32.7
1200	min	15.1	15.6	16.0	16.4	16.5	16.7	16.8

- 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	296	373	417	446	459	472	490
10	min	245	276	303	325	335	346	363
15	min	218	246	265	278	283	289	306
30	min	119	131	141	149	152	155	160
60	min	70.7	79.6	82.8	85.2	86.5	87.9	90.0
120	min	37.5	44.2	45.9	47.1	47.6	48.2	49.1
180	min	32.6	36.2	37.5	38.6	39.1	39.6	40.2
240	min	25.8	28.7	29.8	30.7	31.0	31.3	31.7
300	min	23.9	24.8	25.5	26.1	26.2	26.6	26.9
600	min	14.4	15.0	15.3	15.5	15.6	15.8	15.9
1200	min	7.43	7.62	7.76	7.90	7.95	8.01	8.06

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%)