

MP150-12L

Nominal Voltage(V) 12V

Nominal Capacity

10 hour rate (15A to 10.80V)	150Ah
5 hour rate (25.5A to 10.20V)	127.5Ah
1 hour rate (90A to 9.60V)	90Ah

Weight Approx. 45.5kg(100lbs.)

Internal Resistance (at 1KHz) Approx. 4.8 mΩ

Maximum Discharge Current for

5 seconds: 1500A

Charging Methods at 25° (77°)

Cycle use:

Charging Voltage 14.7 to 14.8V

Coefficient -5.0mV/° /cell

Maximum Charging Current: 45A

Standby use:

Float Charging Voltage 13.5 to 13.8V

Coefficient -3.0mV/° /cell

Operating Temperature Range

Charge -15° (5°) to 40° (104°)

Discharge -15° (5°) to 50° (122°)

Storage -15° (5°) to 40° (104°)

Charge Retention (shelf life) at 20° (68°)

1 month 98%

3 month 94%

6 month 85%

Case Material

ABS

(UL94 HB flame retardant case / cover)

Terminal

F18

Description of torque value of hard ware for the terminals:

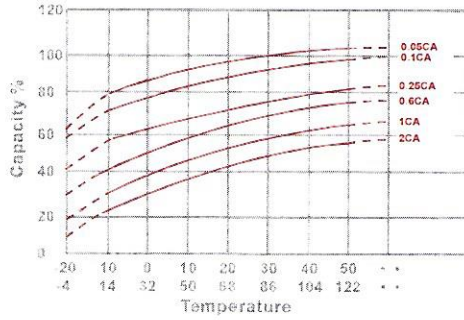
Recommended torque value M8: 7.35 N-m (75kg-cm)

Maximum allowable torque value M8: 9.8 N-m (100kg-cm)

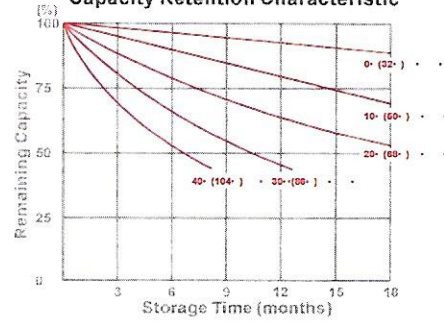


CHARACTERISTIC & PERFORMANCE DATA

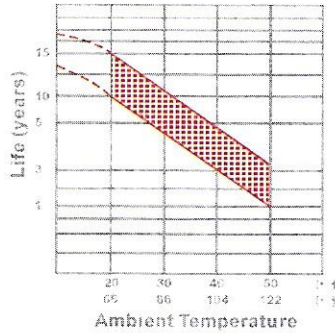
Effect of Temperature on Capacity 25• (77•)



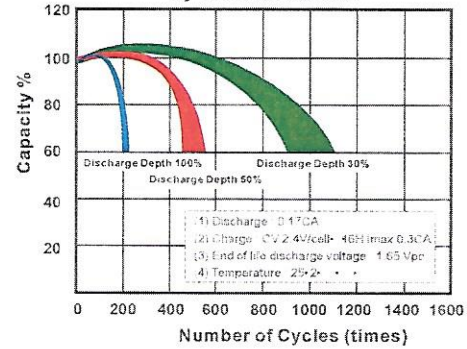
Capacity Retention Characteristic



Trickle (or float) Service Life



Cycle Service Life



- PERFORMANCE DATA

Discharge Rates in Watts to Various End Voltages at 25• (77•)

End Voltage		1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
Time								
10	min	2431	2769	3102	3264	3435	3524	3589
15	min	2156	2404	2639	2752	2871	2933	3003
20	min	1934	2125	2298	2382	2469	2515	2584
30	min	1542	1658	1758	1805	1854	1881	1943
60	min	963	999	1023	1035	1046	1054	1099
90	min	790	834	846	854	858	860	871
120	min	637	670	680	687	690	692	700
180	min	450	471	478	483	485	487	492
240	min	352	368	373	377	379	380	383
300	min	290	302	307	310	311	312	315
480	min	197	205	208	210	211	212	213
600	min	176	182	184	186	187	187	189
1200	min	87.4	89.8	91.1	92.1	92.7	92.9	93.1

Discharge Rates in Amperes to Various End Voltages at 25• (77•)

End Voltage		1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
Time								
10	min	221	252	282	297	312	320	326
15	min	196	219	240	250	261	267	273
20	min	168	185	200	207	215	219	225
30	min	133	143	152	156	160	162	168
60	min	80.9	84.0	85.9	86.9	87.9	88.6	92.3
90	min	66.2	69.9	70.9	71.6	71.9	72.1	73.1
120	min	53.3	56.1	56.9	57.5	57.7	57.9	58.6
180	min	37.5	39.3	39.9	40.3	40.4	40.6	41.0
240	min	29.2	30.5	31.0	31.3	31.4	31.5	31.8
300	min	24.1	25.1	25.5	25.7	25.9	25.9	26.1
480	min	16.3	17.0	17.2	17.4	17.5	17.5	17.6
600	min	14.5	15.1	15.2	15.4	15.4	15.5	15.6
1200	min	7.23	7.42	7.54	7.62	7.67	7.68	7.70

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%)

