



M80-12 SLD M

SPECIFICATIONS

Nominal Voltage (V) 12V

Nominal Capacity

20 hour rate (4A to 10.50V)	80Ah
10 hour rate (7.6A to 10.50V)	76Ah
5 hour rate (13.6A to 10.20V)	68Ah
1 hour rate (47A to 9.60V)	47Ah
1C (80A to 9.60V)	50.67Ah

Weight Approx. 53.68Lbs. (24.4kg)

Internal Resistance (at 1KHz) Approx. 5.5 mΩ

**Maximum Discharge Current for :
5 seconds :** 960A

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 months	94%
6 months	85%

Charging Methods at 25°C (77°F)

Cycle Use : Charging Voltage 14.4 to 15.0V
Coefficient -5.0mv / °C / cell
Maximum Charging Current : 24A

Standby Use : Float Charging Voltage 13.50 to 13.80V
Coefficient -3.0mv / °C / cell

Case Material : ABS UL94HB

Terminal : F8

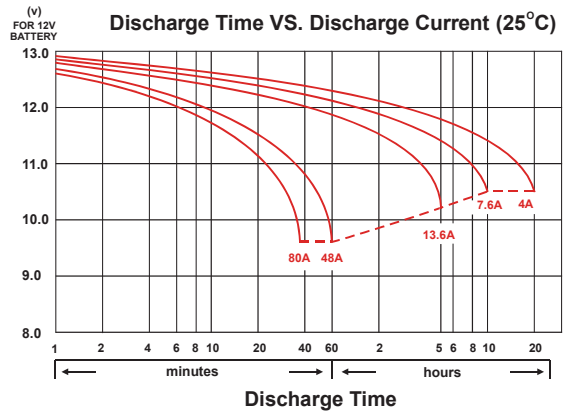
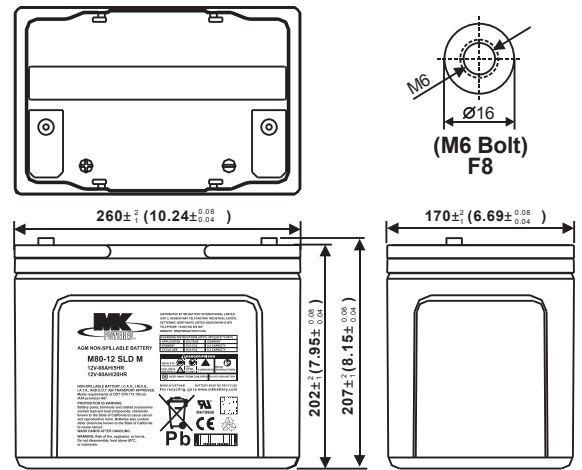
Terminal Hardware Torque Value :

Recommended M6: 7 N-m (71kgf-cm)
Maximum Allowable M6: 10 N-m (102kgf-cm)

Maintenance-Free Rechargeable Sealed Lead-Acid Battery



DIMENSIONS



MK Battery

1631 South Sinclair Street • Anaheim, California 92806

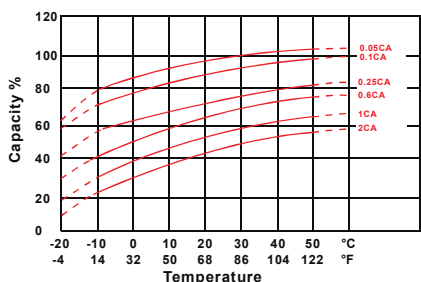
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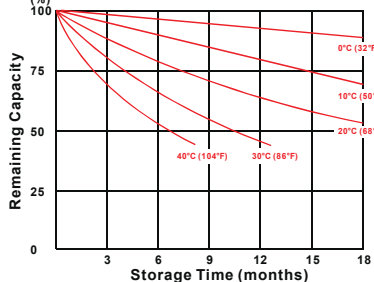


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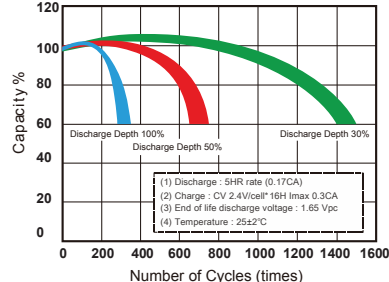
Effect of Temperature on Capacity 25°C (77°F)



Capacity Retention Characteristic



Cycle Service Life



- PERFORMANCE DATA

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

Time	End Voltage	1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
10	min	272	302	329	351	364	374	380
15	min	175	210	235	255	267	279	288
30	min	125	140	152	157	159	161	162
60	min	80.9	84.4	87.6	90.1	91.6	92.4	93.0
120	min	46.7	48.9	50.8	52.3	53.1	53.6	53.8
180	min	33.7	35.2	36.4	37.3	37.8	38.1	38.4
240	min	27.5	28.5	29.4	30.2	30.6	30.8	30.9
300	min	24.9	25.4	25.8	26.2	26.4	26.5	26.6
600	min	15.2	15.5	15.8	15.9	16.0	16.1	16.1
1200	min	7.76	7.94	8.08	8.18	8.21	8.23	8.25

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

Time	End Voltage	1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
10	min	110	140	164	180	191	198	203
15	min	85.5	106	122	132	138	143	147
30	min	61.9	70.2	77.8	82.3	84.1	85.9	87.2
60	min	38.6	41.2	43.2	44.7	45.5	46.3	47.0
120	min	20.0	22.0	23.7	25.0	25.6	25.9	26.0
180	min	15.6	17.0	18.2	19.2	19.7	20.0	20.2
240	min	12.8	13.8	14.6	15.1	15.5	15.8	16.0
300	min	11.9	12.6	13.2	13.7	13.9	14.1	14.2
600	min	7.70	8.00	8.02	8.04	8.05	8.06	8.07
1200	min	3.83	4.00	4.02	4.04	4.05	4.06	4.07

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%)

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