

GE Series AGM Gel Battery

MLX-GE-12V100

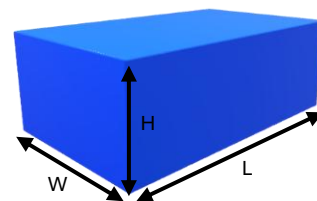


Specification

Nominal Voltage	12 V
Nominal Capacity	100 Ah
Design Life	12 years
Terminal	M8
Approx. Weight	29.5 kg
Container Material	ABS
Rated Capacity	100 Ah > 10 Hour Rate (10.0A to 10.8V) 78.9 Ah > 3 Hour Rate (26.3A to 10.8V) 64.2 Ah > 1 Hour Rate (64.2A to 10.5V)
Internal Resistance	Fully charged at 25 °C: 5.20 mΩ
Max. Discharge Current	1200 A (5S)
Operating Temperature	Discharge: -20 °C ~ 60 °C Charge: -20 °C ~ 50 °C Storage: -20 °C ~ 50 °C
Charge Current	Max. 25.0 A; Recom. 10.0 A
Charge Method (25 °C)	Float Charge: 13.5-13.8V, Recom. 13.8V Equalize Charge: 13.8-14.1V, Recom. 14.1V Cycle Charge: 14.4-15.0V, Recom. 14.7V
Self Discharge	3% per Month at 25 °C

General Features

- ✓ AGM separator
- ✓ Rich electrolyte with colloidal silica gel technology
- ✓ Improved charge acceptance capability
- ✓ Long Life
- ✓ Excellent performance in extreme temperatures



330(L) x 171(W) x 216(H), in mm

Constant Current Discharge Characteristics Unit: A (25 °C)

FV/Time	15 min	30 min	1h	2h	3h	5h	8h	10h	20h
1.60V	184	112	66.0	37.8	27.5	18.4	12.1	10.3	5.43
1.65V	178	110	65.6	37.6	27.2	18.2	12.0	10.2	5.40
1.70V	174	108	65.1	37.4	26.8	18.1	11.9	10.1	5.37
1.75V	169	107	64.2	36.8	26.5	17.9	11.8	10.0	5.35
1.80V	157	102	62.5	36.1	26.3	17.4	11.7	10.0	5.32
1.85V	140	93.3	57.9	34.3	24.8	16.5	11.2	9.7	5.23

Constant Power Discharge Characteristics Unit: W/cell (25 °C)

FV/Time	15 min	30 min	1h	2h	3h	5h	8h	10h	20h
1.60V	323	202	125	71.5	52.2	35.0	23.5	19.9	10.7
1.65V	318	200	124	71.4	51.6	34.8	23.3	19.7	10.7
1.70V	314	200	123	71.1	51.3	34.5	23.2	19.5	10.6
1.75V	312	199	122	70.7	51.0	34.3	23.0	19.3	10.6
1.80V	295	194	121	70.5	50.8	33.9	22.9	19.1	10.5
1.85V	264	178	112	67.3	48.3	32.4	22.1	18.8	10.4

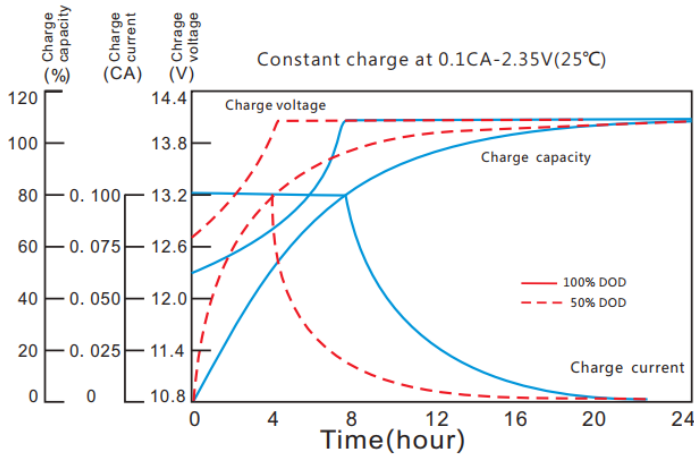


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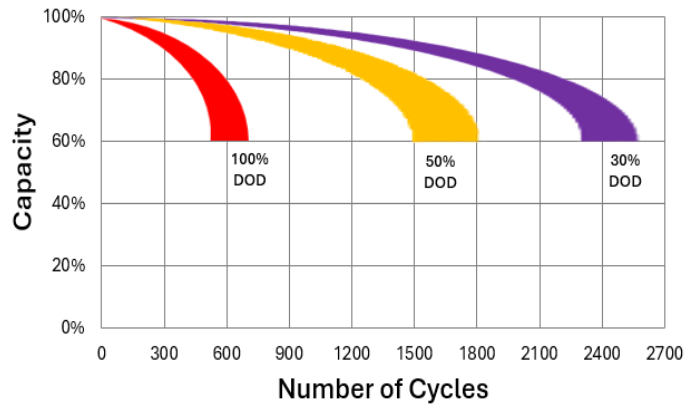
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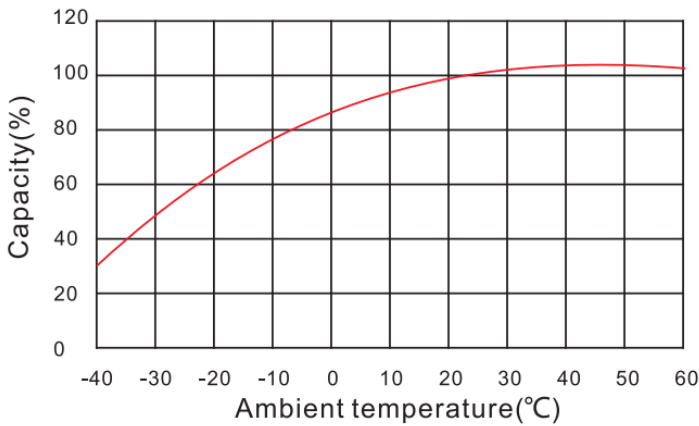
Charging Characteristics



Depth of Discharge versus Cycle Life



Effect of temperature on capacity



Voc by remaining capacity

