MLG12-100 (12V 100Ah)

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Features

- **Maintenance-free operation**
- **Compact design**
- **Gelled Electrolyte Technology**
- **Stable quality and high reliability**
- **12years design time(at 25 C) °**

Application

- **Solar and wind system**
- **Alarm and security system**
- **Backup power for testing and measuring instruments**
- **UPS**
- **Emergency lighting**
- **Fire alarm and security systems**
- **Auto control system**
- **Electronic apparatus and equipment**
- **Communication power supply**
- **Telecommunication system**
- **DC power supply**

Specifications

Nominal Voltage	12V (6 cells)	Operating Temp.Range	Discharge: -15 50℃ (5 122℉)
Nominal Capacity	106AH (20hr, 1.80V/cell, 25 ℃/76℉)		Charge : 0 40℃ (32 104℉)
	100AH (10hr, 1.80V/cell, 25 ℃/77℉)		Storage : -15 40℃ (5 104℉)
	85AH (5hr, 1.75V/cell, 25 ℃/77℉)	Nominal Operating Temp.Range	25 ±3 ℃ (77 ± 5℉)
	60AH (1hr, 1.60V/cell, 25 ℃/77℉)	Cycle Use	14.4~14.8V (25℃/77℉) Temp.Coefficient -30mV/℃
Dimension	Length 328 ± 2mm		Initial Charging Current Less than 30A
	Width 172 ± 2mm	Standby Use	13.5~13.8V (25℃/77℉) Temp.Coefficient -20mV/℃
	Container Height 214 ± 2mm		No limit on Initial Charging Current
	Total Height(with Terminal) 220 ± 2mm	Capacity affected by Temperature	40℃ (104℉) 103%
Approx Weight	Approx 29kg		25℃ (77℉) 100%
Terminal	T3 or F5		0℃ (32℉) 86%
Container Material	ABS	Self Discharge	Sunstone MLG series batteries may be stored for up to 9 months
Max. Discharge Current	1000A (5S)		at 25℃ (77℉) and then a freshening charge is required.
Internal Resistance	Approx 6.0mΩ		For higher temperatures the time interval will be shorter.

Constant Current Discharge (Amperes at 25℃/77℉)

F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	10h	20h
1.80V/cell	249.9	179.9	146.7	91.4	70.3	57.3	33.8	25.4	17.5	10.3	5.39
1.75V/cell	273.0	197.6	159.1	95.3	73.0	59.1	34.8	26.0	17.9	10.4	5.47
1.70V/cell	295.2	211.0	171.8	98.5	75.4	60.8	35.7	26.6	18.2	10.6	5.52
1.65V/cell	318.2	225.1	181.6	103.9	78.5	63.2	36.7	27.4	18.6	10.7	5.60
1.60V/cell	340.2	240.5	189.9	108.5	81.4	65.3	37.8	27.8	18.9	10.8	5.66

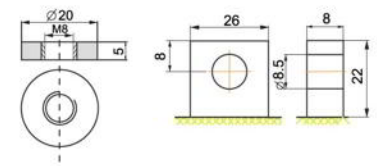
Constant Power Discharge (Watts per cell at 25℃/77℉)

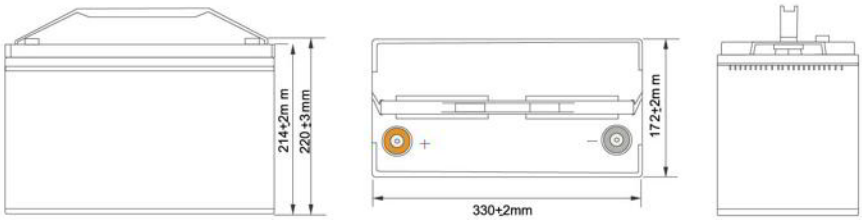
F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	10h	20h
1.80V/cell	467.4	329.6	278.4	171.8	133.7	111.5	65.1	49.2	34.5	20.4	10.63
1.75V/cell	496.8	353.3	292.3	178.9	139.2	114.1	66.8	50.3	35.0	20.6	10.78
1.70V/cell	525.5	371.8	307.5	184.9	143.7	115.7	68.4	51.3	35.4	20.8	10.89
1.65V/cell	566.4	389.1	318.9	195.0	147.9	119.5	69.9	52.2	36.2	20.9	11.00
1.60V/cell	598.8	405.0	332.6	201.0	151.7	123.2	71.3	53.2	36.7	21.1	11.10

Note: The above characteristics data are average values obtained within three charge/discharge cycles, not the minimum values.

Dimensios unitimm[inches]

T5Terminal **F7Terminal**





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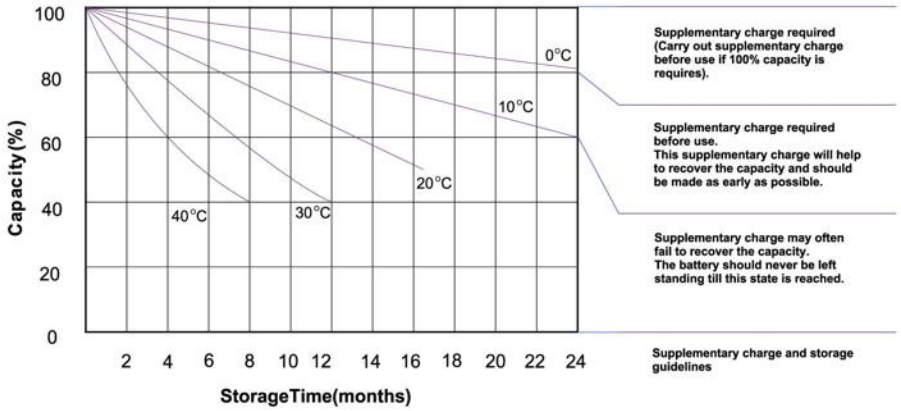
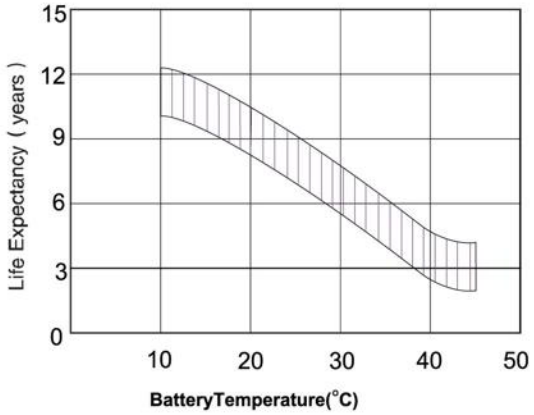
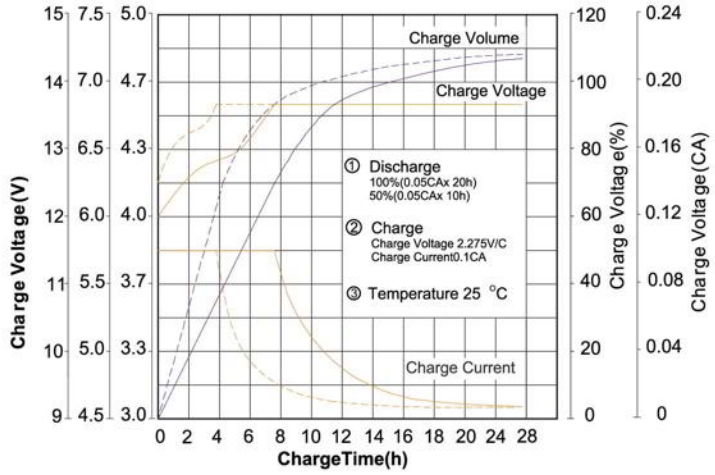
Storage characteristics



Effect of temperature on long term float life

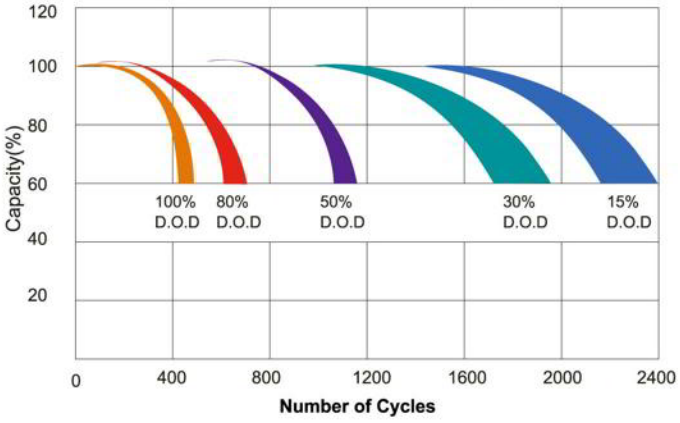


Charge characteristic Curve for standby use

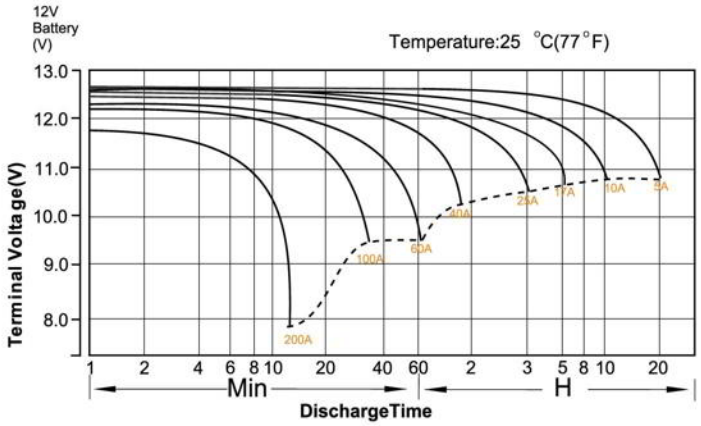


Cycle Life in Relation to Depth of Discharge

Testing condition
Discharging: current 0.17C(FV 1.7V/cell);
Charging: current 0.25C max, voltage 2.45V/cell;
Charging volume:125% of discharged capacity.



Discharge characteristic Curve



Temperature Effects in Relation to Battery Capacity