MLG12-100(12V100AH)

Features

- Maintenance-free operation
- Compact design
- Gelled Electrolyte Technology
- Stable quality and high reliability
- 12 years 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 329±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) 216±2mm	Capacity affected by Temperature	40℃ (104℉) 103%
Approx Weight	Approx 31.8Kg		25℃ (77℉) 100%
Terminal	T5 or F7		0℃ (32℉) 86%
Container Material	ABS	Self Discharge	Sunstone MLGseries 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 5.5mΩ		For higher temperatures the time interval will be shorter.

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

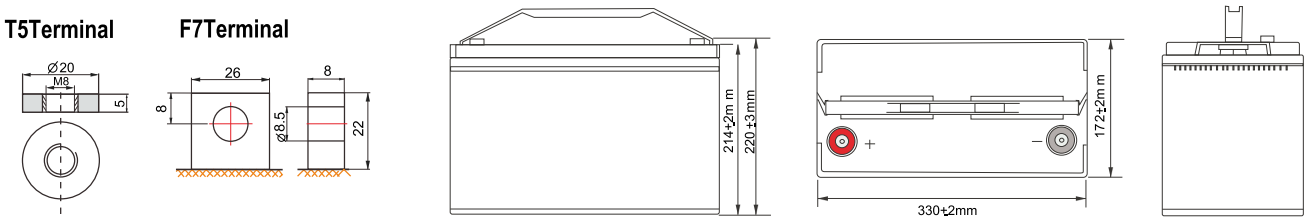
F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	10h	20h
1.80V/cell	\	184.4	150.4	93.7	72.5	59.6	35.2	26.4	18.2	11.0	5.78
1.75V/cell	\	202.5	163.1	97.6	75.2	61.5	36.2	27.1	18.6	11.2	5.87
1.70V/cell	\	216.3	176.1	100.9	77.6	63.3	37.2	27.7	18.9	11.3	5.92
1.65V/cell	\	230.7	186.2	106.5	80.9	65.8	38.2	28.5	19.3	11.5	6.01
1.60V/cell	\	246.5	194.7	111.2	83.9	68.0	39.3	28.9	19.7	11.6	6.07

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	\	337.9	285.3	176.1	137.7	116.1	67.7	51.2	35.9	21.8	11.39
1.75V/cell	\	362.1	299.6	183.3	143.4	118.7	69.5	52.3	36.5	22.1	11.56
1.70V/cell	\	381.1	315.2	189.5	148.1	120.4	71.2	53.4	36.9	22.3	11.68
1.65V/cell	\	398.9	326.8	199.8	152.3	124.3	72.7	54.3	37.6	22.4	11.79
1.60V/cell	\	415.1	340.9	206.0	156.3	128.2	74.2	55.4	38.2	22.6	11.91

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

Dimensios unitimm[inches]



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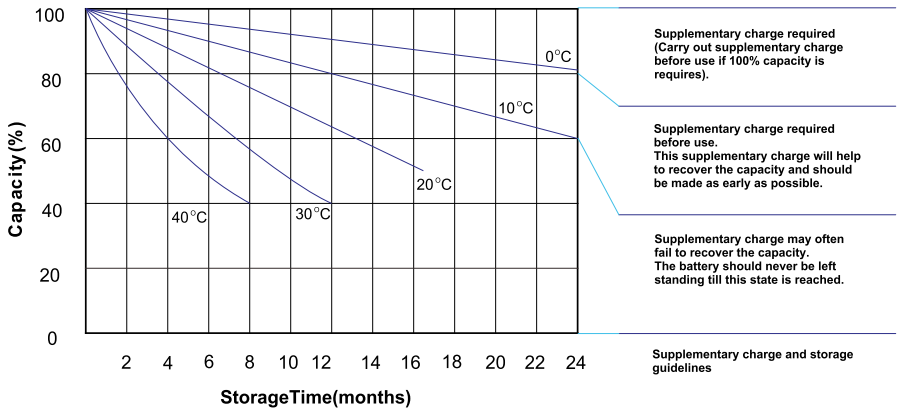
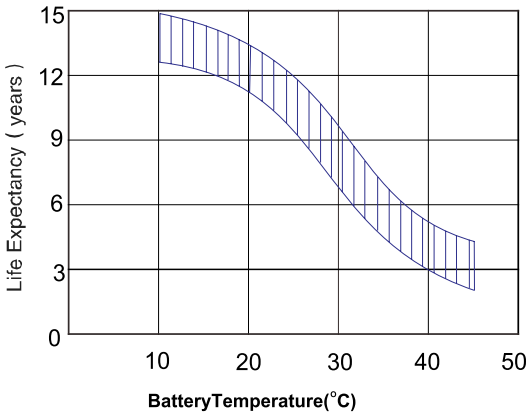
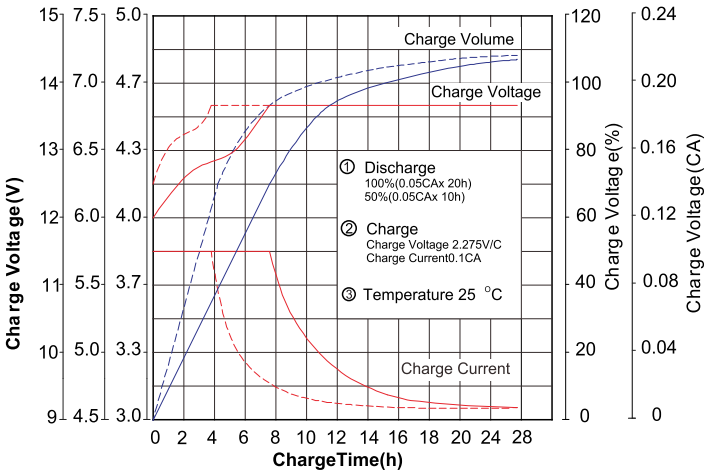
Storage characteristics



Effect of temperature on long term float life

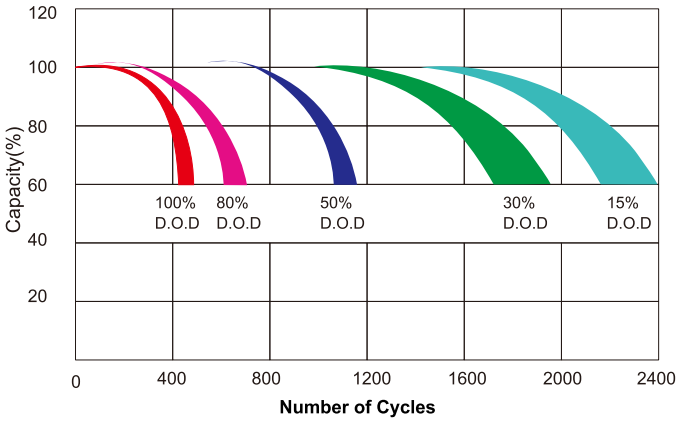


Charge characteristic Curve for standby use

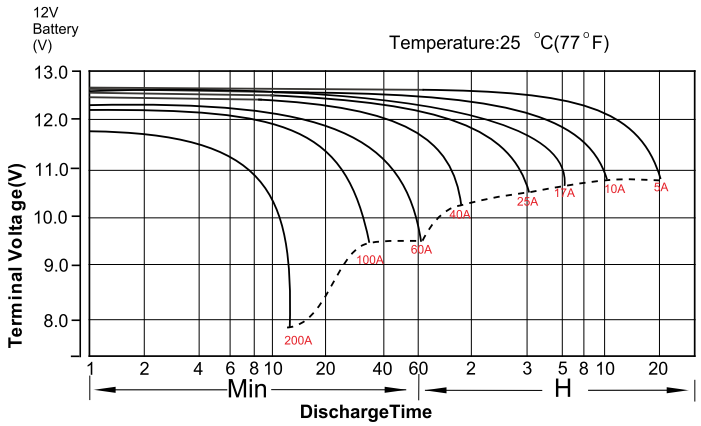


Cycle Life in Relation to Depth of Discharge

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