

MLG12-200 (12V200 AH)

Features

Maintenance-free operation
Compact design
Gelled Electrolyte Technology

Stable quality and high reliability
12 years design life (at 25°C)



Application

- Solar and Wind
- Telecommunication 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
- DC power supply
- Alarm and security system

Specifications

Nominal Voltage	12V (6 cells)	Operating Temp.Range	Discharge: -15 - 50°C (5 - 122°F)
Nominal Capacity	212AH (20hr, 1.80V/cell, 25 °C/76°F)		Charge : 0 - 40°C (32 - 104°F)
	200AH (10hr, 1.80V/cell, 25 °C/77°F)	Nominal Operating Temp.Range	Storage : -15 - 40°C (5 - 104°F)
Dimension	170AH (5hr, 1.75V/cell, 25 °C/77°F)	Cycle Use	25 ± 0.5 °C (77 ± 5°F)
	120AH (1hr, 1.60V/cell, 25°C/77°F)		14.4~14.8V (25°C/77°F) Temp.Coefficient -30mV/°C
	Length 522 ± 2mm	Standby Use	Initial Charging Current Less than 60A
	Width 240 ± 2mm		13.5~13.8V (25°C/77°F) Temp.Coefficient -20mV/°C
Container Height 218 ± 2mm	No limit on Initial Charging Current		
Approx Weight	Total Height(with Terminal) 224 ± 2mm	Capacity affected by Temperature	40°C (104°F) 103%
Terminal	Approx 62.0Kg		25°C (77°F) 100%
Container Material	T5 or F7		0°C (32°F) 86%
Max. Discharge Current	2000A (5S)	Self Discharge	Sunstone MLG series batteries may be stored for up to 9 months at 25°C (77°F) and then a freshening charge is required.
Internal Resistance	Approx 3.0mΩ		For higher temperatures the time interval will be shorter.

Constant Current Discharge (Amperes at 25°C/77°F)

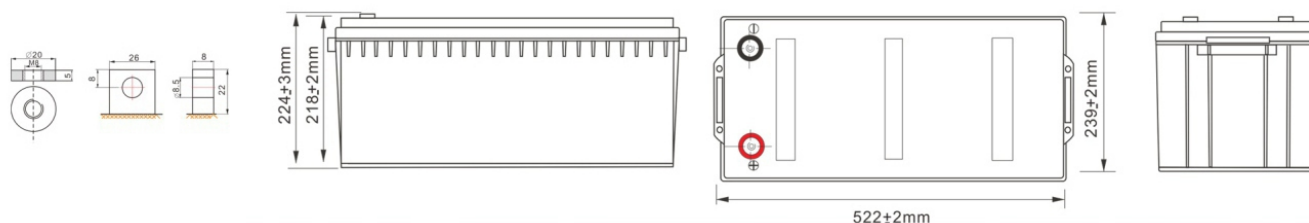
F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	10h	20h
1.80V/cell	\	349.2	284.8	177.5	137.3	112.9	66.6	50.0	34.4	20.8	10.95
1.75V/cell	\	383.6	308.9	184.9	142.5	116.5	68.5	51.3	35.2	21.2	11.11
1.70V/cell	\	409.7	333.6	191.2	147.1	119.8	70.4	52.4	35.8	21.5	11.22
1.65V/cell	\	436.9	352.6	201.7	153.2	124.6	72.4	53.9	36.6	21.7	11.38
1.60V/cell	\	466.9	368.7	210.7	158.8	128.7	74.4	54.8	37.3	21.9	11.49

Constant Power Discharge (Watts per cell at 25°C/77°F)

F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	10h	20h
1.80V/cell	\	639.9	540.4	333.6	260.8	219.9	128.3	97.0	68.0	41.3	21.58
1.75V/cell	\	685.8	567.5	347.2	271.6	224.8	131.7	99.1	69.0	41.9	21.90
1.70V/cell	\	721.8	597.0	359.0	280.4	228.0	134.9	101.0	69.8	42.2	22.12
1.65V/cell	\	755.4	619.0	378.5	288.5	235.5	137.7	102.9	71.3	42.5	22.33
1.60V/cell	\	786.2	654.7	390.2	296.1	242.8	104.8	104.8	72.3	42.8	22.55

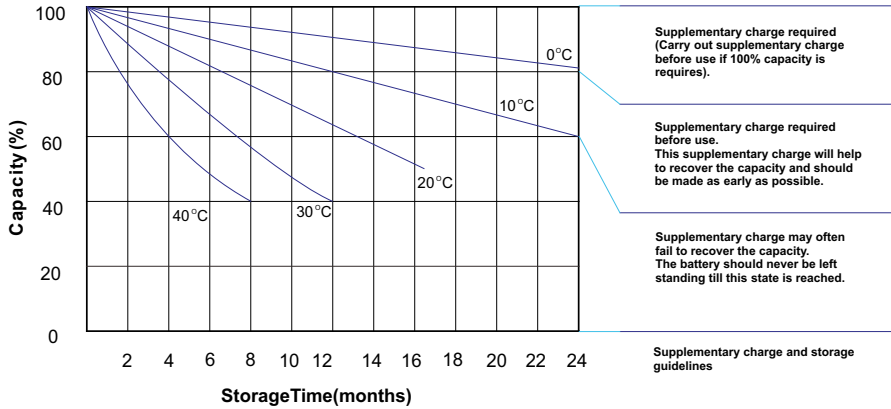
Note: The above characteristics data are average values obtained within three charge/discharge cycles, not the minimum values.

Dimensions unitmm[inches]

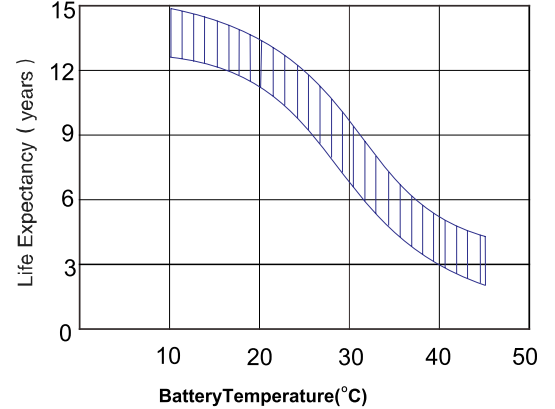


MLG12-200 (12V200 AH)

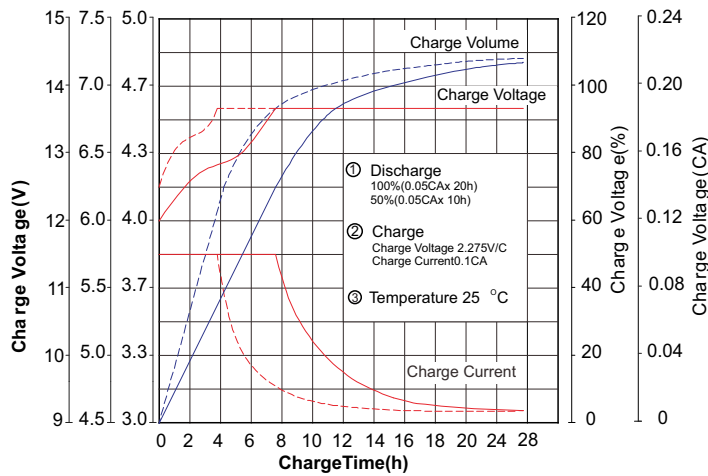
Storage characteristics



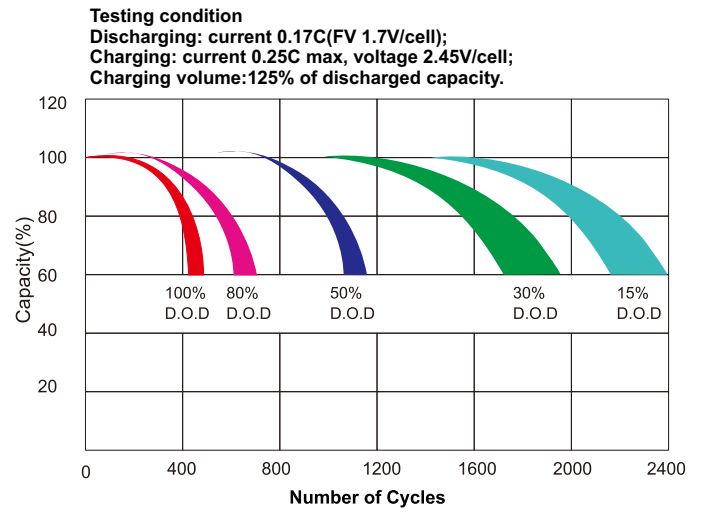
Effect of temperature on long term float life



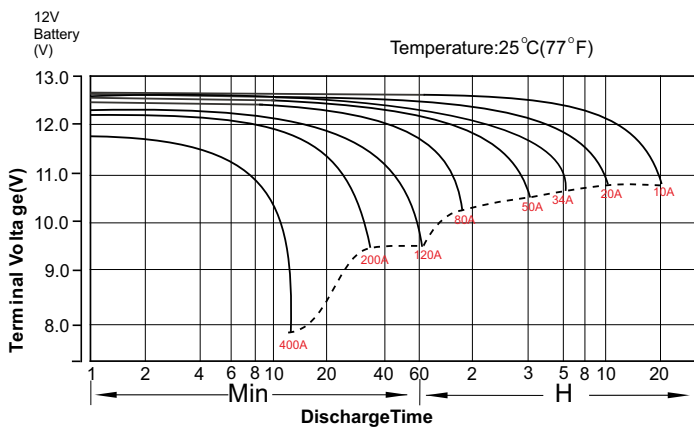
Charge characteristic Curve for standby use



Cycle Life in Relation to Depth of Discharge



Discharge characteristic Curve



Temperature Effects in Relation to Battery Capacity

