

MLG12-200(12V200AH GEL)

Features

- ◆ Maintenance-free operation
- ◆ Stable quality and high reliability
- ◆ Gelled electrolyte technology
- ◆ Compact design
- ◆ 12 years design time (at 25°C)



Application

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

Specifications

Nominal Voltage	12V (6 cells)	Operating Temp.Range	Discharge: -15 - 50 (5 - 122°F)
Nominal Capacity	212AH (20hr, 1.80V/cell, 25 °C/77°F)		Charge : 0 - 40°C (32 - 104°F)
	200AH (10hr, 1.80V/cell, 25 °C/77°F)		Storage : -15 - 40°C (5 - 104°F)
	170AH (5hr, 1.75V/cell, 25 °C/77°F)		
Dimension	120AH (1hr, 1.60V/cell, 25 °C/77°F)	Nominal Operating Temp.Range	25 ±3°C (77 ±5°F)
	Length 522 ± 2mm	Cycle Use	14.4~14.8V (25°C/77°F) Temp.Coefficient -30mV/ °C
	Width 240 ± 2mm		Initial Charging Current Less than 60A
	Container Height 218 ± 2mm	Standby Use	13.5~13.8V (25°C/77°F) Temp.Coefficient -20mV/ °C
Total Height(with Terminal) 224 ± 2mm	No limit on Initial Charging Current		
Approx Weight	Approx 63.3Kg	Capacity affected by Temperature	40°C (104°F) 103%
Terminal	T5 or F7		25°C (77°F) 100%
Container Material	ABS		0°C (32°F) 86%
Max. Discharge Current	2000A (5S)	Self Discharge	MLG12-200 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)

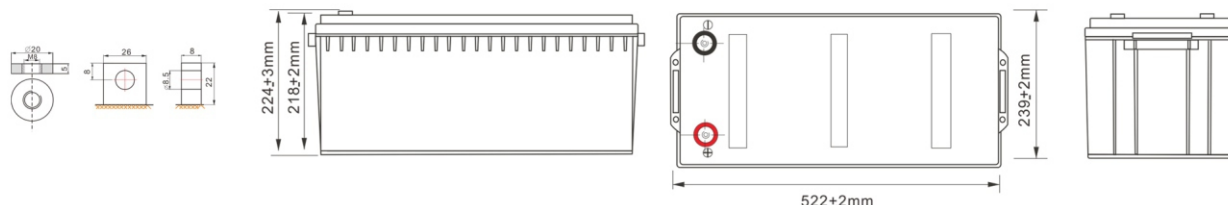
F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	10h	20h
1.80V/cell	\	349.2	284.8	177.5	137.3	112.9	66.6	50.0	34.4	20.8	10.95
1.75V/cell	\	383.6	308.9	184.9	142.5	116.5	68.5	51.3	35.2	21.2	11.11
1.70V/cell	\	409.7	333.6	191.2	147.1	119.8	70.4	52.4	35.8	21.5	11.22
1.65V/cell	\	436.9	352.6	201.7	153.2	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	645.7	390.2	296.1	242.8	140.5	104.8	72.3	42.8	22.55

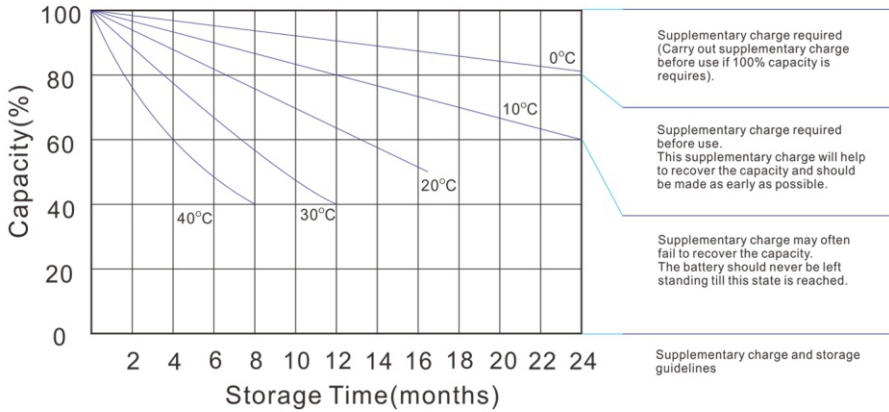
Note: The above characteristics data are average values obtained within three charge/discharge cycles, not the minimum values.

Dimensios unitimm[inches]

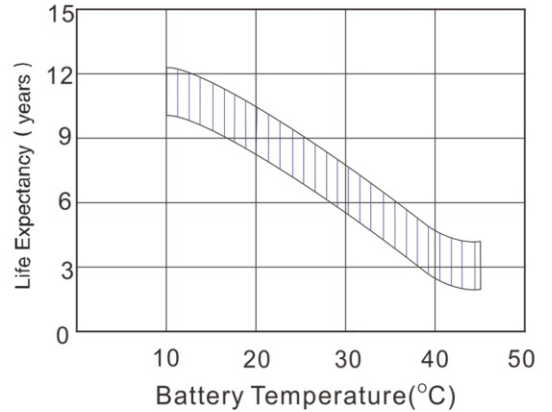


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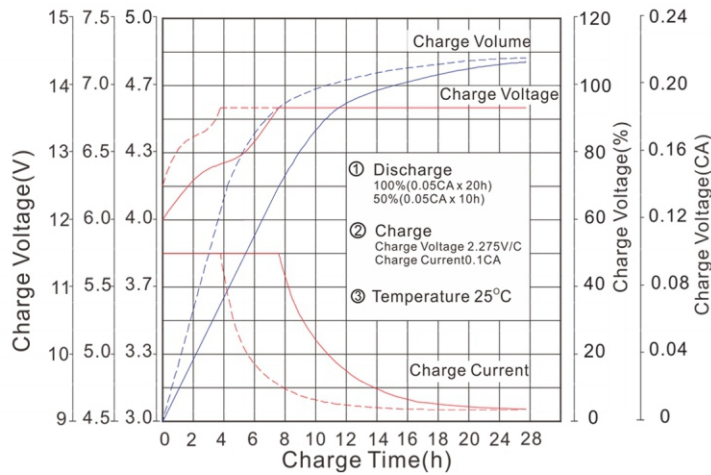
Storage characteristics



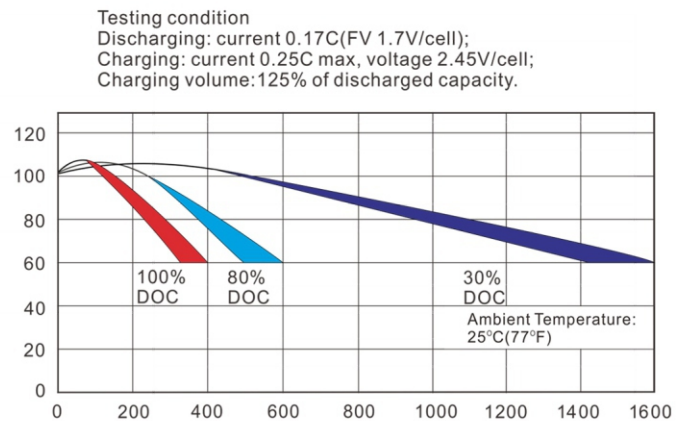
Effect of temperature on long term float life



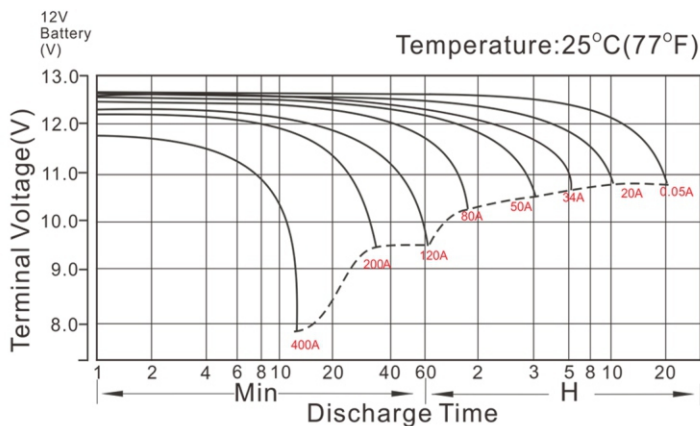
Charge character Curve for standby use



Cycle Life in Relation to Depth of Discharge



Discharge characteristic Curve



Temperature Effects in Relation to Battery Capacity

