MLG12-100H (12V105AH C10 @25°C)

Features

§ Maintenance-free operation
§ Gel technology
§ ABS case, Flame Retardant V0 is available
§ Stable quality and high reliability
§ 12 years design life (at 25°C)

Application

§ Telecommunication system
§ Alarm and security system
§ Backup power
§ Solar & Wind
§ Emergency lighting
§ Auto control system
§ Electronic apparatus and equipment
§ Communication power supply
§ DC power supply

Specification

Nominal Voltage	12V (6 cells)	Operating Temp.Range	Discharge: -15-50°C (5-122°F)
Nominal Capacity	110AH (20hr, 1.80V/cell, 25°C/77°F)		Charge: 0-40°C (32-104°F)
	105AH (10hr, 1.80V/cell, 25°C/77°F)		Storage: -15-40°C (5-104°F)
	90AH (5hr, 1.75V/cell, 25°C/77°F)	Nominal Operating Temp.Range	25 ± 3°C (77 ± 5°F)
	63AH (1hr, 1.60V/cell, 25°C/77°F)	Cycle Use	14.4~14.8V (25°C/77°F) Temp.Coefficient -30mV/°C
Dimension	Length 329 ± 2mm		Initial Charging Current Less than 30A
	Width 172 ± 2mm	Standby Use	13.5~13.8V (25°C/77°F) Temp.Coefficient -20mV/°C
	Container Height 214 ± 2mm		No limit on Initial Charging Current
	Total Height(with Terminal) 220 ± 2mm	Capacity affected by Temperature	40°C (104°F) 103%
Approx Weight	Approx 30.0Kg		25°C (77°F) 100%
Terminal	T5 or F7		0°C (32°F) 86%
Container Material	ABS	Self Discharge	MLG series batteries may be stored for up to 6 months
Max. Discharge Current	1000A (5S)		at 25°C (77°F) and then a freshening charge is required.
Internal Resistance	Approx 4.8mΩ		For higher temperatures the time interval will be shorter.

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

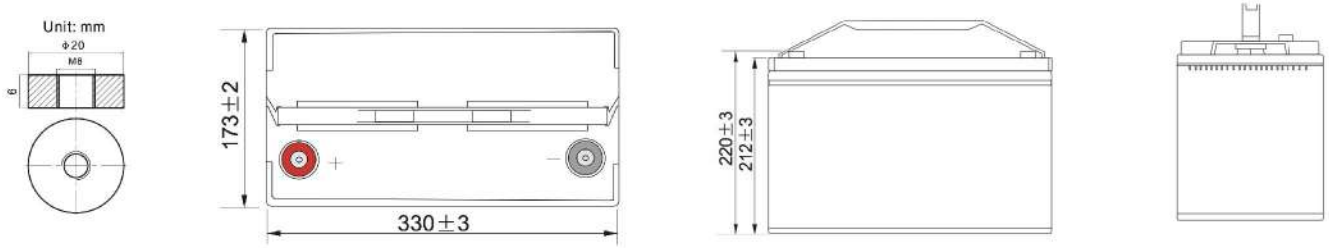
F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	10h	20h
1.80V/cell	249.9	179.9	146.7	92.4	70.3	57.3	33.5	25.1	17.5	10.3	5.44
1.75V/cell	273.0	197.6	159.1	97.3	73.0	59.1	34.4	25.8	17.9	10.5	5.52
1.70V/cell	295.2	211.0	171.8	101.5	75.4	60.8	35.4	26.3	18.2	10.7	5.57
1.65V/cell	318.2	225.1	181.6	107.8	78.5	63.2	36.4	27.1	18.7	10.8	5.66
1.60V/cell	340.2	240.5	189.9	112.2	81.4	65.3	37.4	27.5	19.0	10.9	5.71

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	444.0	332.8	282.2	182.6	133.7	110.4	65.1	49.2	35.2	20.6	10.72
1.75V/cell	487.6	359.7	304.9	188.6	139.2	113.0	66.4	50.8	35.9	20.8	10.87
1.70V/cell	507.1	380.0	319.8	195.3	143.7	114.7	67.7	51.0	36.3	21.0	10.98
1.65V/cell	548.6	389.5	328.0	205.6	147.9	118.3	69.9	50.7	36.5	21.2	11.10
1.60V/cell	587.9	409.1	335.9	212.9	151.7	122.0	71.8	51.1	37.0	21.4	11.20

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

Dimension



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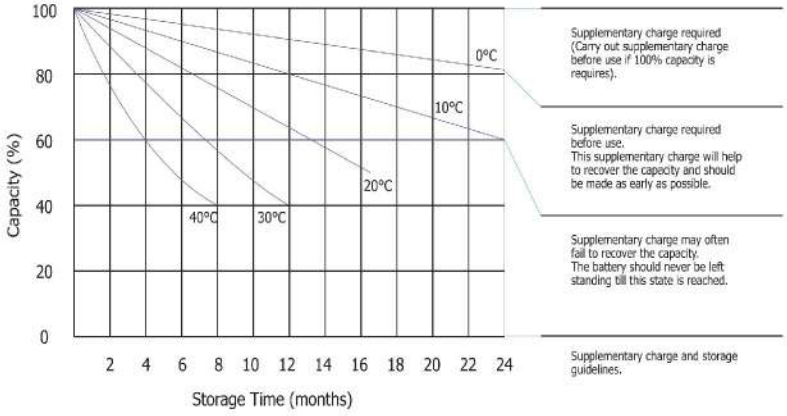
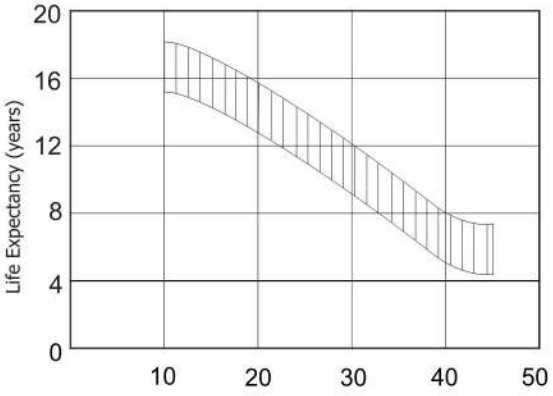
Storage Characteristics

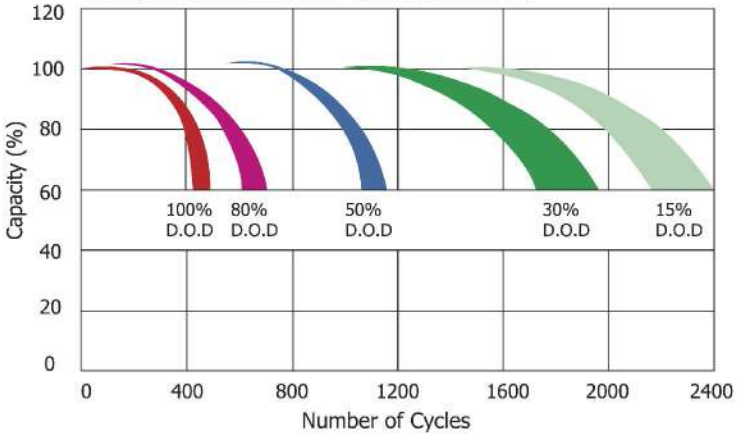


Effect Of Temperature On Float Life

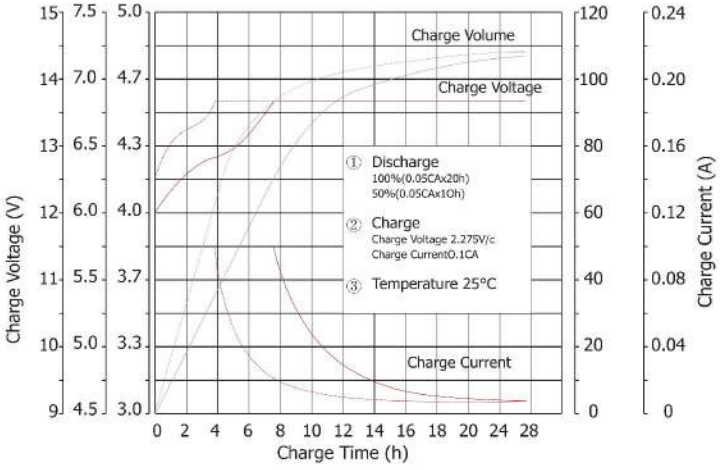


Cycle Life With Depth Of Discharge (D.O.D.)

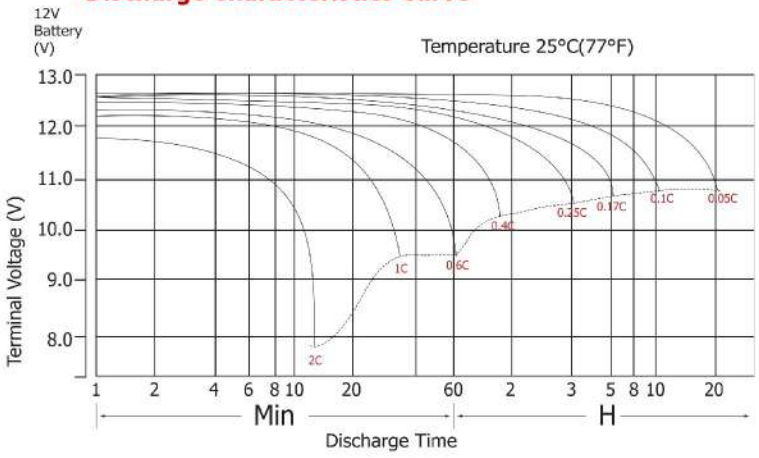
Testing condition
Discharging: current 0.17C (FV 1.7V/cell);
Charging: current 0.25C max, voltage 2.45V/cell;
Charging volume: 125% of discharged capacity



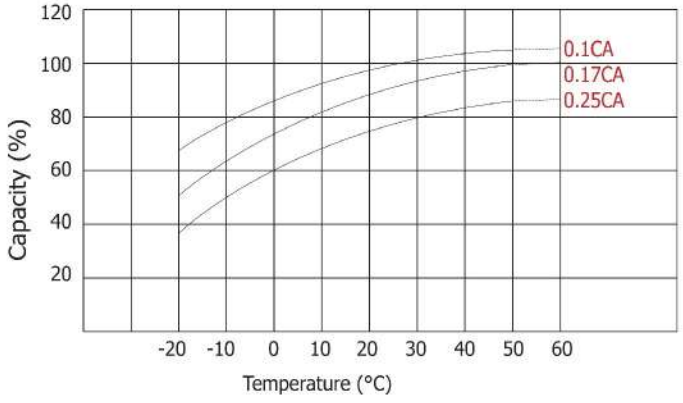
Charge Characteristics Curve For Standby Use



Discharge Characteristics Curve



Temperature Effects With Capacity



Certificates

MH20942

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