MLG12-150 (12V150AH 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
§ UPS
§ 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	159AH (20hr, 1.80V/cell, 25°C/77°F)		Charge: 0-40°C (32-104°F)
	150AH (10hr, 1.80V/cell, 25°C/77°F)		Storage: -15-40°C (5-104°F)
	128AH (5hr, 1.75V/cell, 25°C/77°F)	Nominal Operating Temp.Range	25 ± 3°C (77 ± 5°F)
	90AH (1hr, 1.60V/cell, 25°C/77°F)	Cycle Use	14.4~14.8V (25°C/77°F) Temp.Coefficient -30mV/°C
Dimension	Length 483 ± 2mm		Initial Charging Current Less than 45A
	Width 170 ± 2mm	Standby Use	13.5~13.8V (25°C/77°F) Temp.Coefficient -20mV/°C
	Container Height 241 ± 2mm		No limit on Initial Charging Current
	Total Height(with Terminal) 241 ± 2mm	Capacity affected by Temperature	40°C (104°F) 103%
Approx Weight	Approx 44.0Kg		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	1500A (5S)		At 25°C (77°F) and then a freshening charge is required.
Internal Resistance	Approx 4.5mΩ		For higher temperatures the time interval will be shorter.

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

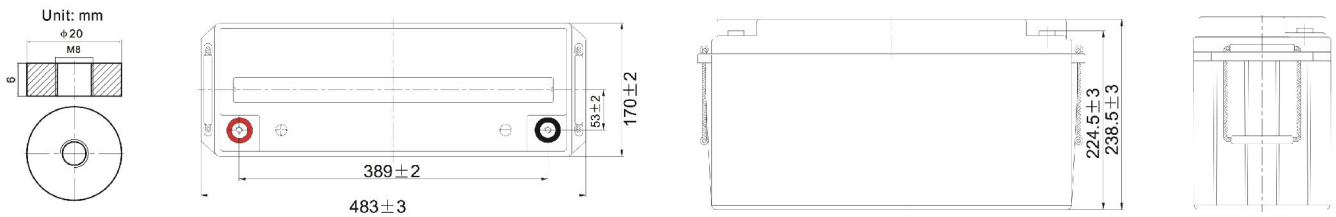
F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	10h	20h
1.80V/cell	-	257.2	209.8	130.7	101.1	83.1	49.1	36.8	25.3	15.3	8.07
1.75V/cell	-	282.5	227.5	136.2	104.9	85.8	50.5	37.8	25.9	15.6	8.18
1.70V/cell	-	301.7	245.7	140.8	108.3	88.3	51.9	38.6	26.4	15.8	8.26
1.65V/cell	-	321.8	259.7	148.5	112.8	91.7	53.3	39.7	26.9	16.0	8.38
1.60V/cell	-	343.9	271.6	155.2	117.0	94.8	54.8	40.4	27.4	16.1	8.46

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	-	471.3	398.0	245.7	192.1	161.9	94.5	71.5	50.1	30.4	15.89
1.75V/cell	-	505.1	417.9	255.7	200.1	165.6	97.0	73.0	50.8	30.8	16.13
1.70V/cell	-	531.6	439.7	264.4	206.5	167.9	99.3	74.4	51.4	31.1	16.29
1.65V/cell	-	556.4	455.9	278.8	212.5	173.4	101.4	75.8	52.5	31.3	16.45
1.60V/cell	-	579.0	475.6	287.4	218.1	178.8	103.4	77.2	53.3	31.5	16.61

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

Dimension

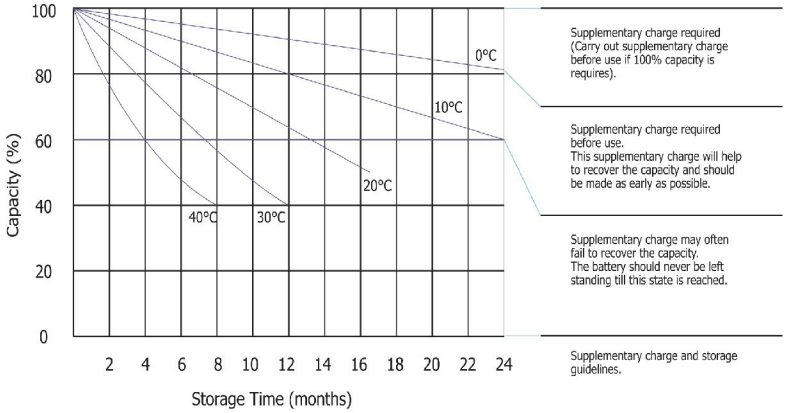


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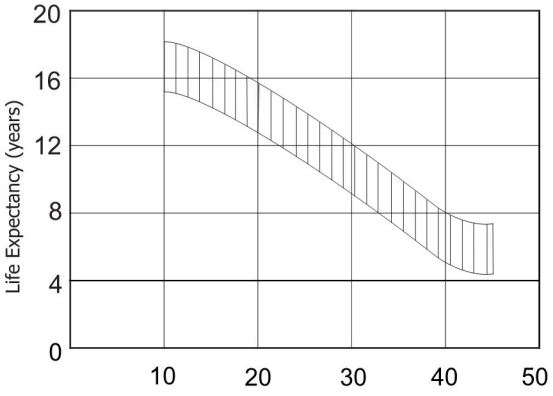
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Storage Characteristics

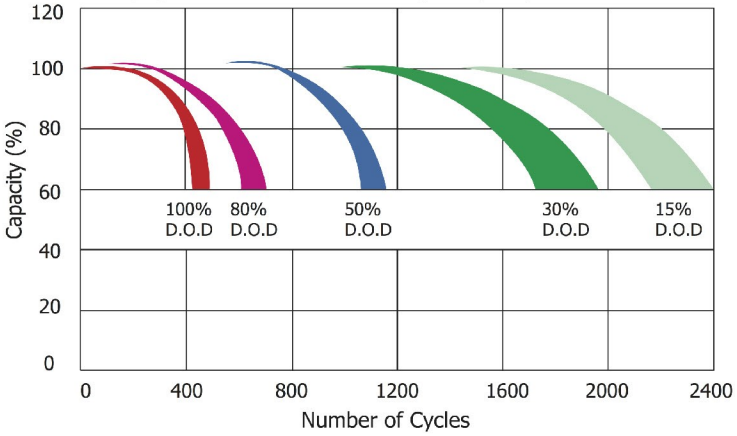


Effect Of Temperature On Float Life

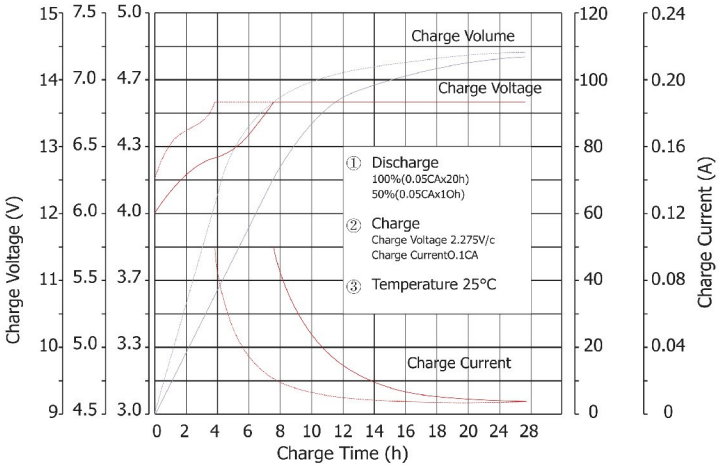


Cycle Life With Depth Of Discharge (D.O.D.)

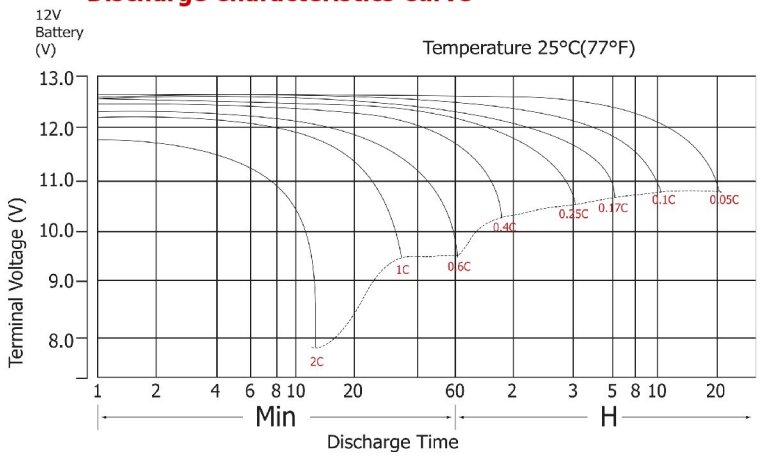
Testing condition
Discharging: current 0.17C (FV 1.7V/cell);
Charging: current 0.25C max, voltage 2.45V/cell;
Charging volume: 125% of discharged capacity



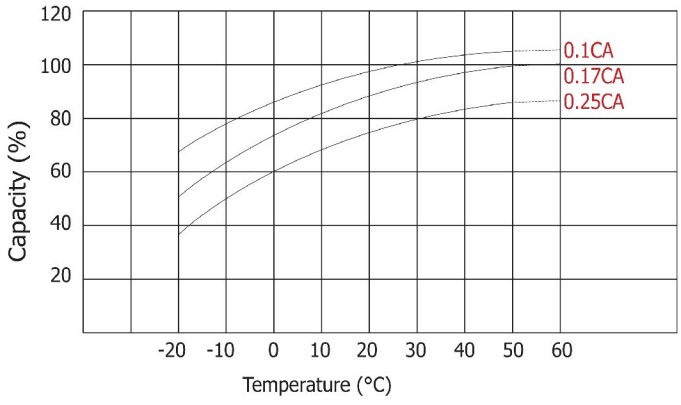
Charge Characteristics Curve For Standby Use



Discharge Characteristics Curve



Temperature Effects With Capacity



Certificates

MH20942

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