

## **MLG12-120** (12V120AH 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	126AH (20hr, 1.80V/cell, 25°C/77°F)		Charge: 0-40°C (32-104°F)
	120AH (10hr, 1.80V/cell, 25°C/77°F)	Nominal Operating Temp.Range	Storage: -15-40°C (5-104°F)
	103AH (5hr, 1.75V/cell, 25°C/77°F)		25 ± 3°C (77 ± 5°F)
	72AH (1hr, 1.60V/cell, 25°C/77°F)	Cycle Use	14.4~14.8V (25°C/77°F) Temp.Coefficient -30mV/°C
Dimension	Length 407 ± 2mm	Standby Use	Initial Charging Current Less than 36A
	Width 174 ± 2mm		13.5~13.8V (25°C/77°F) Temp.Coefficient -20mV/°C
	Container Height 209 ± 2mm	Capacity affected by Temperature	No limit on Initial Charging Current
	Total Height(with Terminal) 238 ± 2mm		40°C (104°F) 103%
Approx Weight	Approx 35.8Kg		25°C (77°F) 100%
Terminal	T5 or F7	Self Discharge	0°C (32°F) 86%
Container Material	ABS		MLG series batteries may be stored for up to 6 months
Max. Discharge Current	1200A (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)

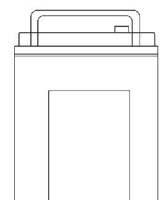
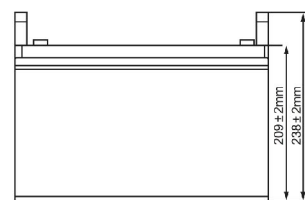
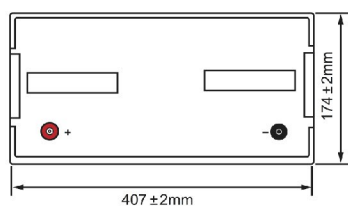
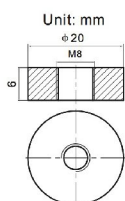
F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	10h	20h
1.80V/cell	271.4	195.4	159.3	100.3	76.4	62.3	36.4	27.3	18.7	11.0	5.81
1.75V/cell	296.5	214.6	172.8	105.7	79.4	64.3	37.4	28.1	19.1	11.1	5.90
1.70V/cell	320.6	229.1	186.6	110.2	82.0	66.2	38.5	28.6	19.5	11.4	5.98
1.65V/cell	345.6	244.5	197.2	117.1	85.3	68.8	39.6	29.5	20.0	11.6	6.06
1.60V/cell	369.5	261.2	206.2	122.8	88.5	71.0	40.7	29.9	20.2	11.7	6.11

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

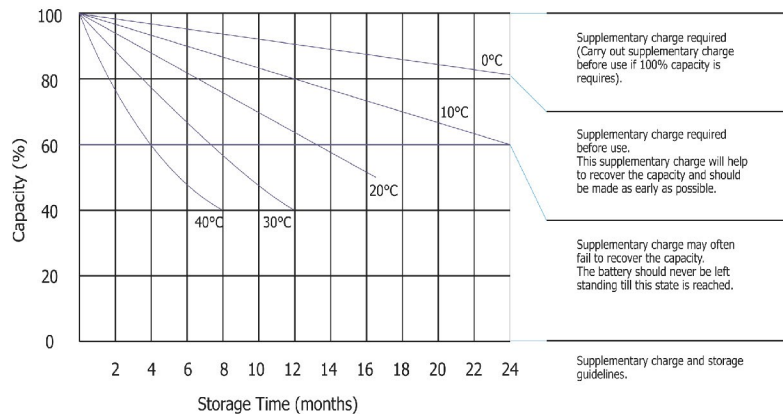
F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	10h	20h
1.80V/cell	482.2	361.4	306.4	198.3	145.3	120.1	70.9	53.6	37.5	22.0	11.52
1.75V/cell	529.5	390.6	331.1	204.8	151.3	122.9	72.2	55.3	38.3	22.2	11.68
1.70V/cell	550.7	412.7	347.3	212.1	156.2	124.8	73.7	55.5	38.7	22.4	11.80
1.65V/cell	595.7	423.0	356.2	223.4	160.8	128.7	76.1	55.1	39.0	22.7	11.92
1.60V/cell	638.5	444.2	364.8	232.2	164.9	132.7	78.1	55.6	39.5	22.8	11.94

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

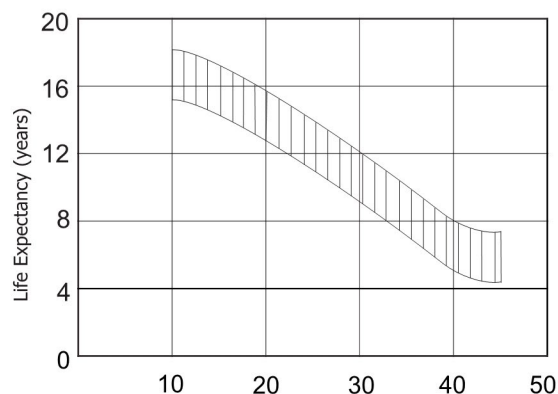
### Dimension



## Storage Characteristics



## Effect Of Temperature On Float Life



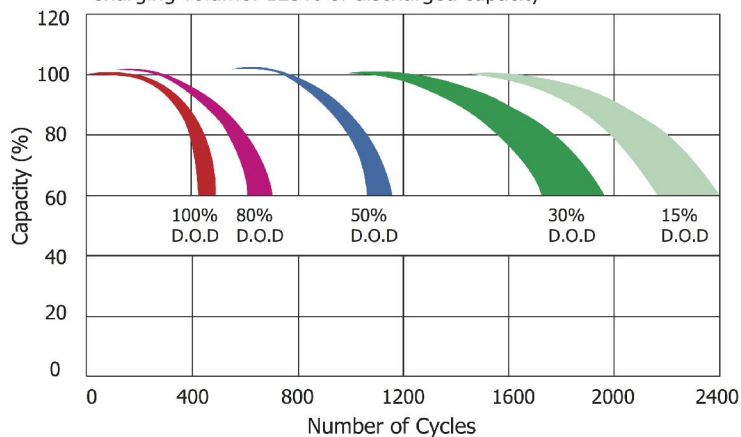
## Cycle Life With Depth Of Discharge (D.O.D.)

Testing condition

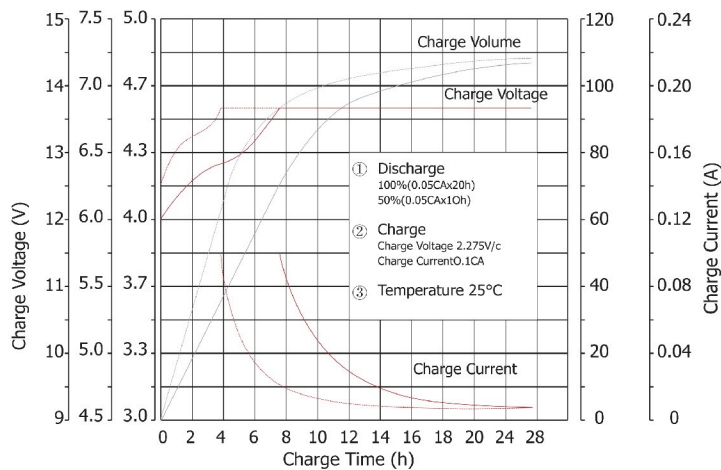
Discharging: current 0.17C (FV 1.7V/cell);

Charging: current 0.25C max, voltage 2.45V/cell;

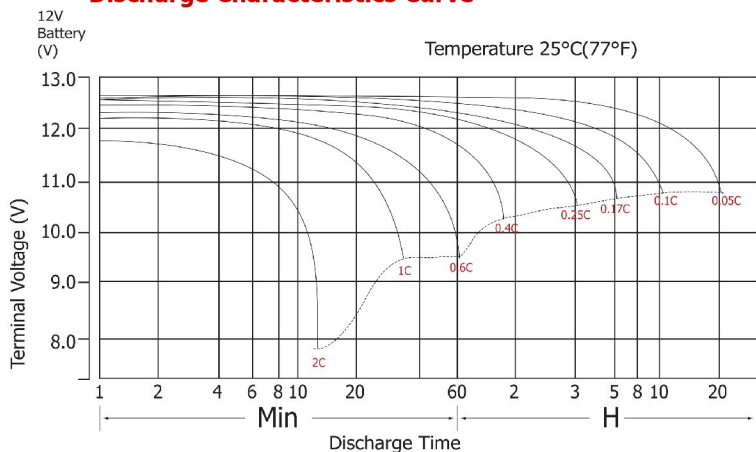
Charging volume: 125% of discharged capacity



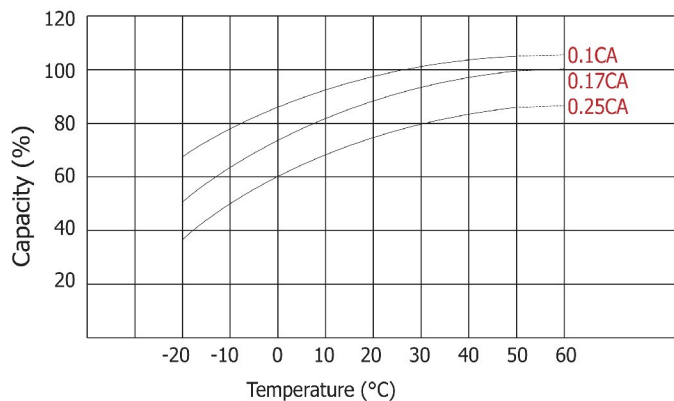
## Charge Characteristics Curve For Standby Use



## Discharge Characteristics Curve



## Temperature Effects With Capacity



## Certificates

