

## MLG12-250 (12V250AH 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	260AH (20hr, 1.80V/cell, 25°C/77°F)		Charge: 0-40°C (32-104°F)
	250AH (10hr, 1.80V/cell, 25°C/77°F)	Storage: -15-40°C (5-104°F)	
	213AH (5hr, 1.75V/cell, 25°C/77°F)	Nominal Operating Temp.Range	25 ± 3°C (77 ± 5°F)
Dimension	150AH (1hr, 1.60V/cell, 25°C/77°F)	Cycle Use	14.4~14.8V (25°C/77°F) Temp.Coefficient -30mV/°C
	Length 522 ± 2mm	Standby Use	Initial Charging Current Less than 75A
	Width 269 ± 2mm		13.5~13.8V (25°C/77°F) Temp.Coefficient -20mV/°C
	Container Height 220 ± 2mm	Capacity affected by Temperature	No limit on Initial Charging Current
Total Height(with Terminal) 225 ± 2mm	40°C (104°F) 103%		
Approx Weight	Approx 71.0Kg	Self Discharge	25°C (77°F) 100%
Terminal	T5 or F7		0°C (32°F) 86%
Container Material	ABS		MLG series batteries may be stored for up to 6 months
Max. Discharge Current	2500A (5S)		At 25°C (77°F) and then a freshening charge is required.
Internal Resistance	Approx 2.4mΩ		For higher temperatures the time interval will be shorter.

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

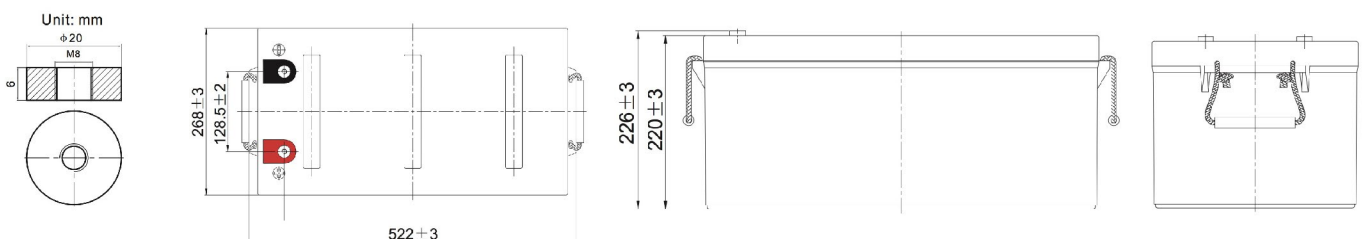
F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	10h	20h
1.80V/cell	-	426.8	347.5	224.5	168.8	137.5	82.5	62.0	42.6	25.1	13.00
1.75V/cell	-	468.1	378.2	232.8	174.4	141.0	84.8	63.5	43.7	25.4	13.15
1.70V/cell	-	499.6	408.6	241.3	180.6	146.2	87.1	65.1	44.5	25.8	13.42
1.65V/cell	-	530.3	430.9	250.0	186.2	150.1	89.5	67.9	45.3	26.2	13.56
1.60V/cell	-	559.8	450.8	260.6	193.5	155.9	92.0	69.3	46.2	26.5	13.65

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

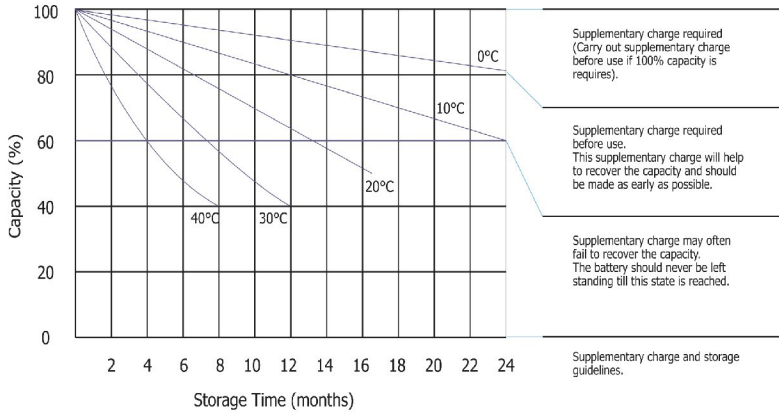
F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	10h	20h
1.80V/cell	-	785.5	660.1	418.6	324.7	268.7	161.0	122.8	85.6	51.2	26.35
1.75V/cell	-	840.1	697.4	437.3	334.2	272.9	164.3	124.5	87.2	51.5	26.48
1.70V/cell	-	879.9	738.7	447.0	348.1	281.8	168.2	126.4	88.3	51.9	26.88
1.65V/cell	-	913.4	769.8	461.8	357.2	287.4	171.8	129.5	89.1	52.3	27.13
1.60V/cell	-	945.3	796.7	479.2	366.6	295.6	174.2	131.9	90.0	52.6	27.29

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

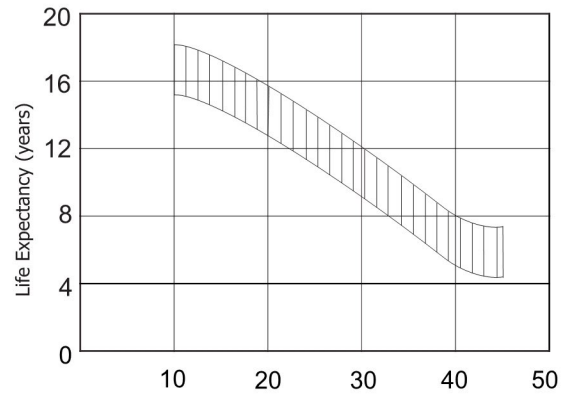
### Dimension



## Storage Characteristics

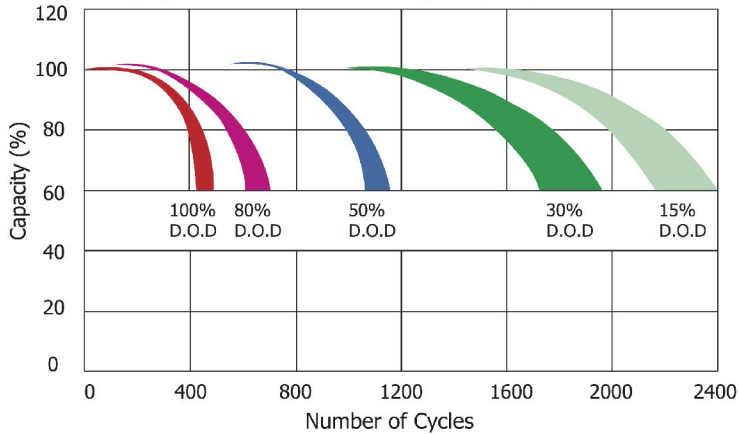


## Effect Of Temperature On Float Life

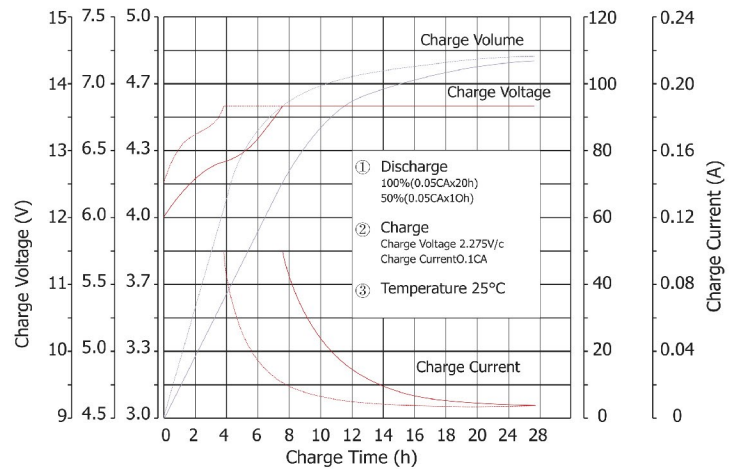


## Cycle Life With Depth Of Discharge (D.O.D.)

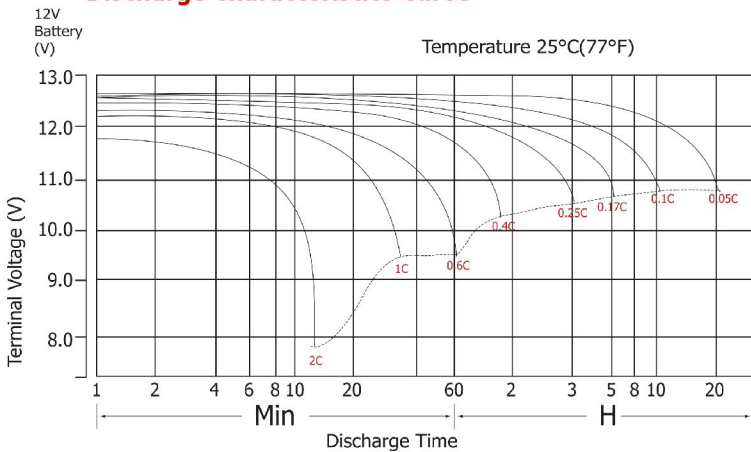
Testing condition  
 Discharging: current 0.17C (FV 1.7V/cell);  
 Charging: current 0.25C max, voltage 2.45V/cell;  
 Charging volume: 125% of discharged capacity



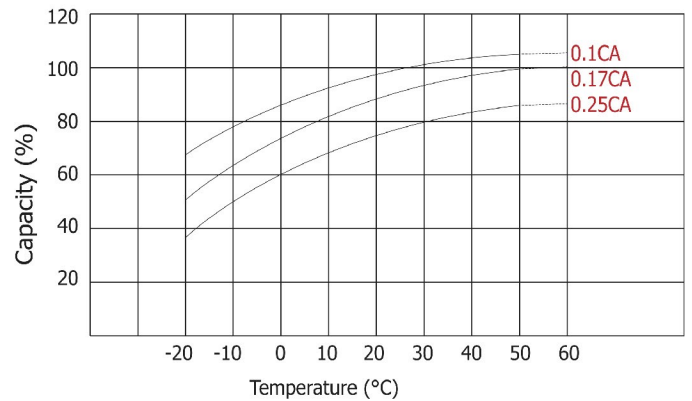
## Charge Characteristics Curve For Standby Use



## Discharge Characteristics Curve



## Temperature Effects With Capacity



## Certificates

