

## MLG12-180 (12V180AH 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	189AH (20hr, 1.80V/cell, 25°C/77°F)		Charge: 0-40°C (32-104°F)
	180AH (10hr, 1.80V/cell, 25°C/77°F)	Nominal Operating Temp.Range	Storage: -15-40°C (5-104°F)
	153AH (5hr, 1.75V/cell, 25°C/77°F)		25 ± 3°C (77 ± 5°F)
	108AH (1hr, 1.60V/cell, 25°C/77°F)	Cycle Use	14.4~14.8V (25°C/77°F) Temp.Coefficient -30mV/°C
Dimension	Length 532 ± 2mm	Standby Use	Initial Charging Current Less than 54A
	Width 207 ± 2mm		13.5~13.8V (25°C/77°F) Temp.Coefficient -20mV/°C
	Container Height 215 ± 2mm	Capacity affected by Temperature	No limit on Initial Charging Current
	Total Height(with Terminal) 220 ± 2mm		40°C (104°F) 103%
Approx Weight	Approx 52.0Kg		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	1800A (5S)		At 25°C (77°F) and then a freshening charge is required.
Internal Resistance	Approx 3.8mΩ		For higher temperatures the time interval will be shorter.

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

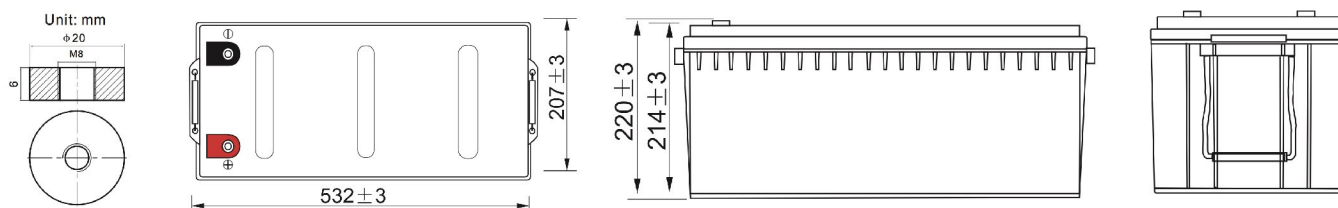
F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	10h	20h
1.80V/cell	-	301.3	245.7	157.2	118.4	97.4	57.5	43.2	29.7	18.0	9.47
1.75V/cell	-	330.9	266.5	163.5	122.9	100.5	59.1	44.2	30.4	18.3	9.53
1.70V/cell	-	353.5	287.8	168.9	126.9	103.4	60.8	45.2	30.9	18.5	9.61
1.65V/cell	-	376.9	304.2	178.0	132.2	107.5	62.5	46.5	31.6	18.7	9.74
1.60V/cell	-	402.8	318.1	184.8	137.0	111.1	64.2	47.3	32.1	18.9	9.83

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

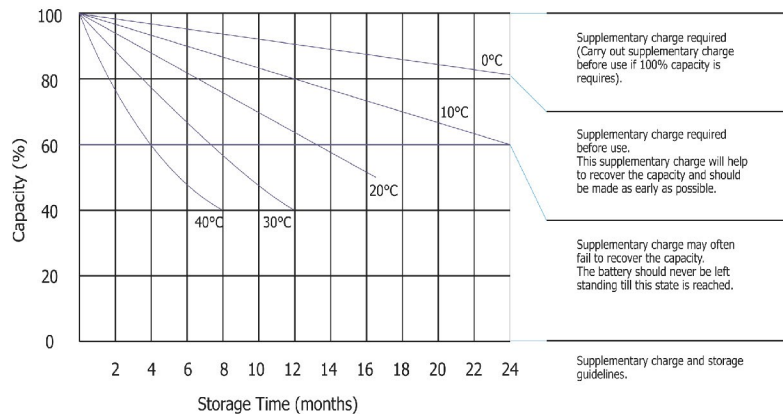
F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	10h	20h
1.80V/cell	-	552.1	466.2	293.8	225.0	189.7	110.7	83.7	58.7	35.7	18.66
1.75V/cell	-	591.7	489.6	305.6	234.4	194.0	113.6	85.5	59.6	36.1	18.94
1.70V/cell	-	622.8	515.0	314.7	241.9	196.7	116.4	87.2	60.2	36.4	19.12
1.65V/cell	-	651.8	534.0	331.0	248.9	203.1	118.8	88.8	61.5	36.6	19.31
1.60V/cell	-	678.3	557.1	341.6	255.5	209.5	121.2	90.5	62.4	36.9	19.49

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

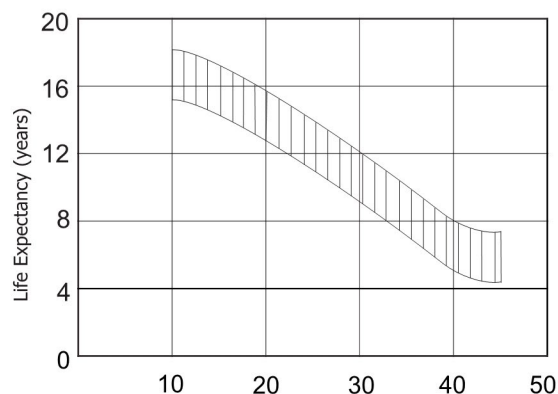
### Dimension



## Storage Characteristics



## Effect Of Temperature On Float Life



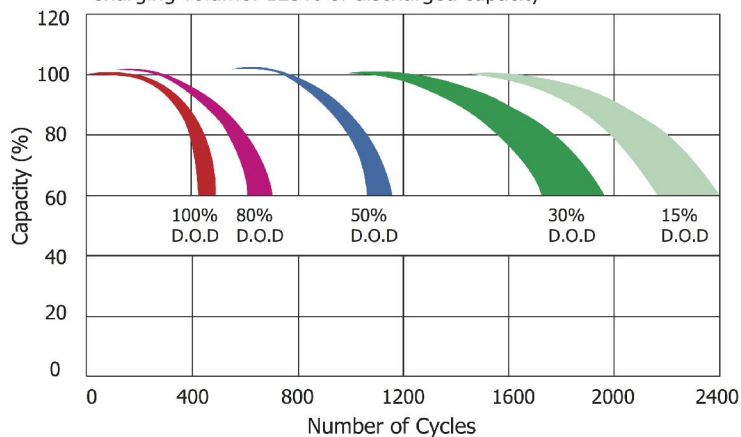
## Cycle Life With Depth Of Discharge (D.O.D.)

Testing condition

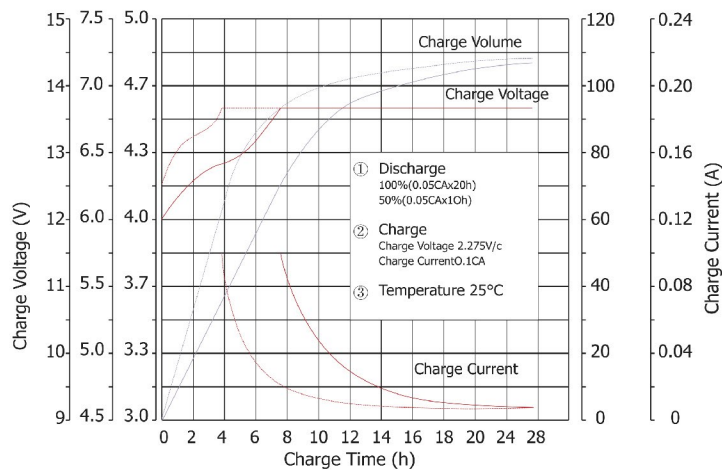
Discharging: current 0.17C (FV 1.7V/cell);

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

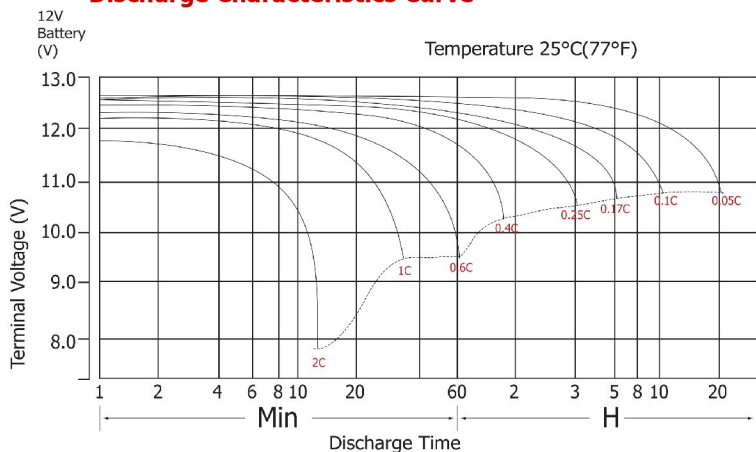
Charging volume: 125% of discharged capacity



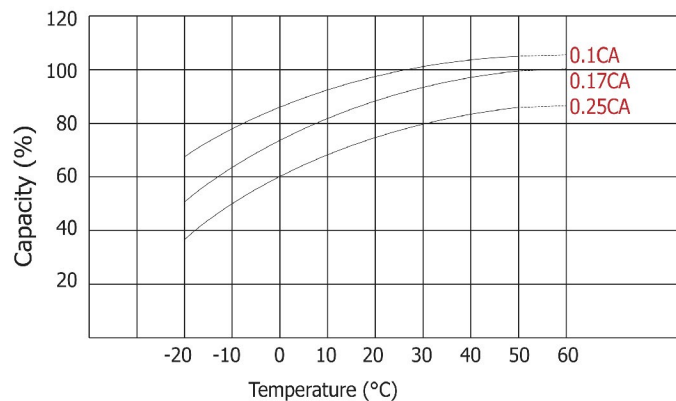
## Charge Characteristics Curve For Standby Use



## Discharge Characteristics Curve



## Temperature Effects With Capacity



## Certificates

