

## MLG12-70 (12V70AH 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	74AH (20hr, 1.80V/cell, 25°C/77°F)		Charge: 0-40°C (32-104°F)
	70AH (10hr, 1.80V/cell, 25°C/77°F)	Storage: -15-40°C (5-104°F)	
	59.5AH (5hr, 1.75V/cell, 25°C/77°F)	Nominal Operating Temp.Range	25 ± 3°C ( 77 ± 5°F)
Dimension	42AH (1hr, 1.60V/cell, 25°C/77°F)	Cycle Use	14.4~14.8V (25°C/77°F) Temp.Coefficient -30mV/°C
	Length 260 ± 2mm	Standby Use	Initial Charging Current Less than 21A
	Width 168 ± 2mm		13.5~13.8V (25°C/77°F) Temp.Coefficient -20mV/°C
	Container Height 208 ± 2mm	Capacity affected by Temperature	No limit on Initial Charging Current
Total Height(with Terminal) 213 ± 2mm	40°C (104°F) 103%		
Approx Weight	Approx 22.5Kg	Self Discharge	25°C (77°F) 100%
Terminal	T3 or F5		0°C (32°F) 86%
Container Material	ABS		MLG series batteries may be stored for up to 6 months at 25°C (77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.
Max. Discharge Current	700A (5S)		
Internal Resistance	Approx 6.8mΩ		

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

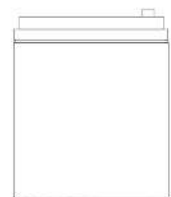
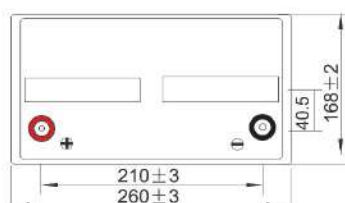
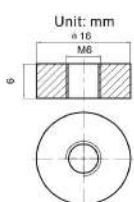
F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	10h	20h
1.80V/cell	173.3	124.7	101.7	63.4	48.8	39.7	23.2	17.4	12.0	7.04	3.70
1.75V/cell	189.2	137.0	110.3	66.0	50.6	41.0	23.9	17.9	12.3	7.17	3.76
1.70V/cell	204.7	146.3	119.1	68.3	52.3	42.2	24.5	18.3	12.5	7.26	3.79
1.65V/cell	220.6	156.0	125.9	72.0	54.4	43.8	25.2	18.8	12.7	7.33	3.85
1.60V/cell	235.9	166.8	131.7	75.2	56.4	45.3	25.9	19.1	13.0	7.40	3.88

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

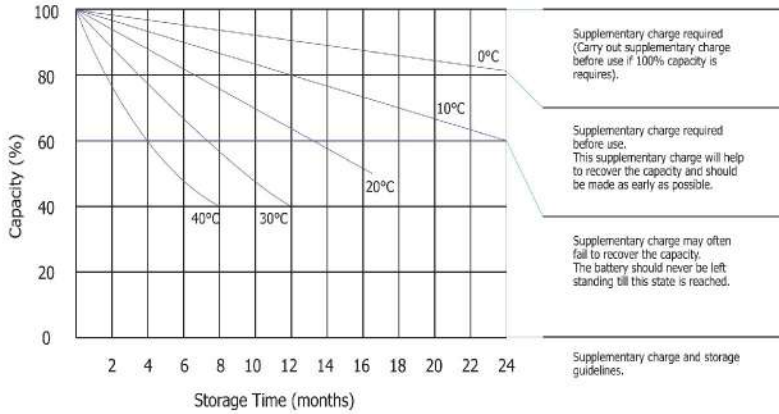
F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	10h	20h
1.80V/cell	324.0	228.5	193.0	119.1	92.7	77.3	44.7	33.8	23.7	13.97	7.29
1.75V/cell	344.4	245.0	202.7	124.0	96.5	79.1	45.9	34.5	24.0	14.15	7.40
1.70V/cell	364.3	257.8	213.2	128.2	99.6	80.2	47.0	35.2	24.3	14.26	7.48
1.65V/cell	392.7	269.8	221.1	135.2	102.5	82.8	48.0	35.8	24.8	14.35	7.55
1.60V/cell	415.2	280.8	230.6	139.4	105.2	85.4	48.9	36.5	25.2	14.46	7.62

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

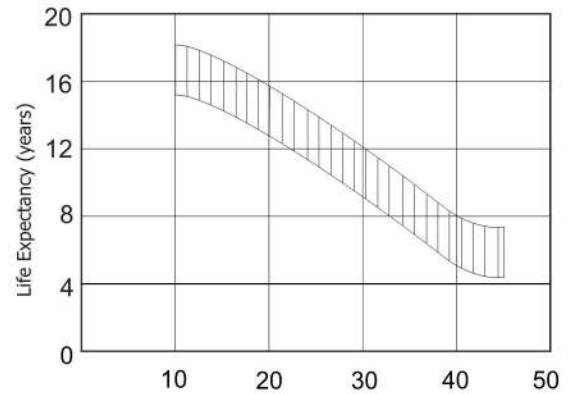
### Dimension



## Storage Characteristics

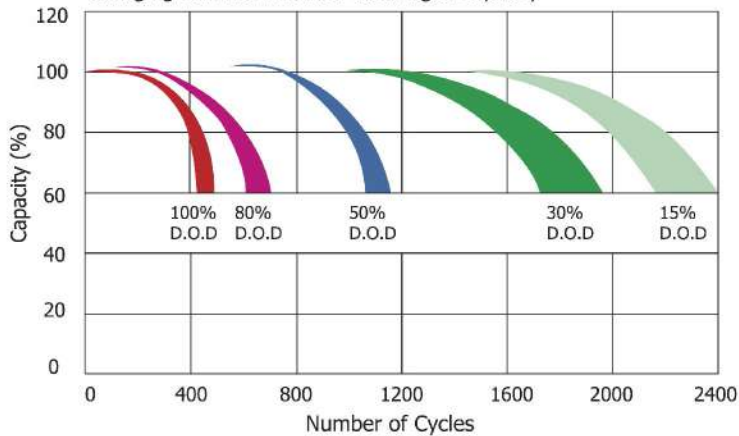


## Effect Of Temperature On Float Life

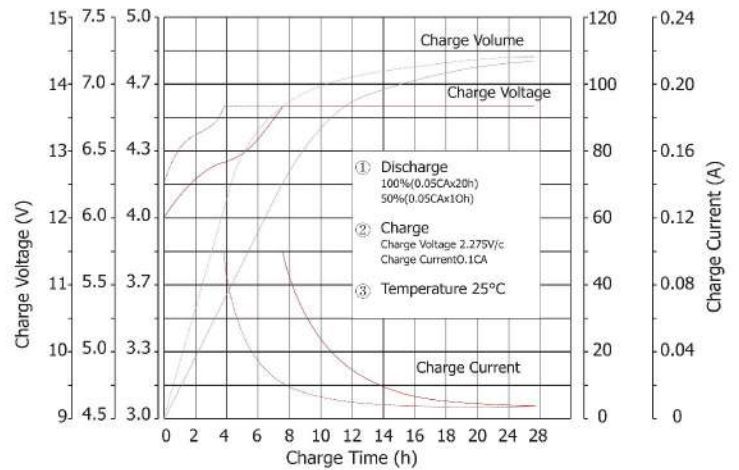


## Cycle Life With Depth Of Discharge (D.O.D.)

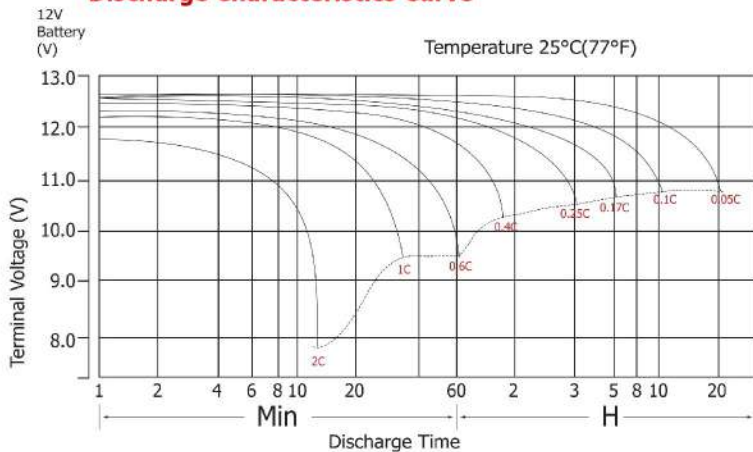
Testing condition  
 Discharging: current 0.17C (FV 1.7V/cell);  
 Charging: current 0.25C max, voltage 2.45V/cell;  
 Charging volume: 125% of discharged capacity



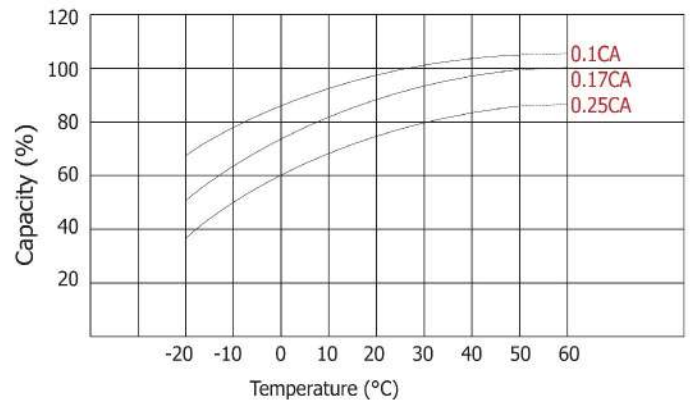
## Charge Characteristics Curve For Standby Use



## Discharge Characteristics Curve



## Temperature Effects With Capacity



## Certificates

