

MLG12-75 (12V75AH 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	79AH (20hr, 1.80V/cell, 25°C/77°F)		Charge:0-40°C (32-104°F)
	75AH (10hr, 1.80V/cell, 25°C/77°F)	Storage: -15-40°C (5-104°F)	
	64AH (5hr, 1.75V/cell, 25°C/77°F)	Nominal Operating Temp.Range	25 ± 3°C (77 ± 5°F)
	45AH (1hr, 1.60V/cell, 25°C/77°F)	Cycle Use	14.4~14.8V (25°C/77°F) Temp.Coefficient -30mV/°C Initial Charging Current Less than 22.5A
Dimension	Length 260 ± 2mm	Standby Use	13.5~13.8V (25°C/77°F) Temp.Coefficient -20mV/°C No limit on Initial Charging Current
	Width 168 ± 2mm		Capacity affected by Temperature
	Container Height 208 ± 2mm	25°C (77°F) 100%	
	Total Height(with Terminal) 213 ± 2mm	0°C (32°F) 86%	
Approx Weight	Approx 23.0Kg	Self Discharge	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.
Terminal	T3 or F5		
Container Material	ABS		
Max. Discharge Current	700A (5S)		
Internal Resistance	Approx 6.2mΩ		

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

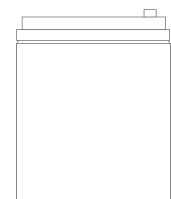
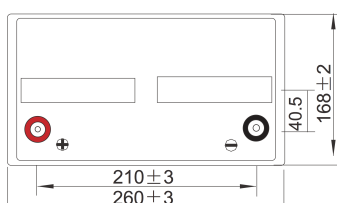
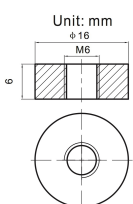
F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	10h	20h
1.80V/cell	184.5	132.8	108.3	68.7	51.9	42.3	24.7	18.6	12.8	7.53	3.96
1.75V/cell	201.6	145.9	117.5	72.4	53.9	43.6	25.4	19.0	13.1	7.67	4.02
1.70V/cell	218.0	155.8	126.9	75.6	55.7	44.9	26.1	19.4	13.3	7.77	4.06
1.65V/cell	235.0	166.2	134.1	76.7	58.0	46.7	26.9	20.0	13.6	7.84	4.12
1.60V/cell	251.2	177.6	140.2	80.1	60.1	48.2	27.6	20.3	13.8	7.92	4.15

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

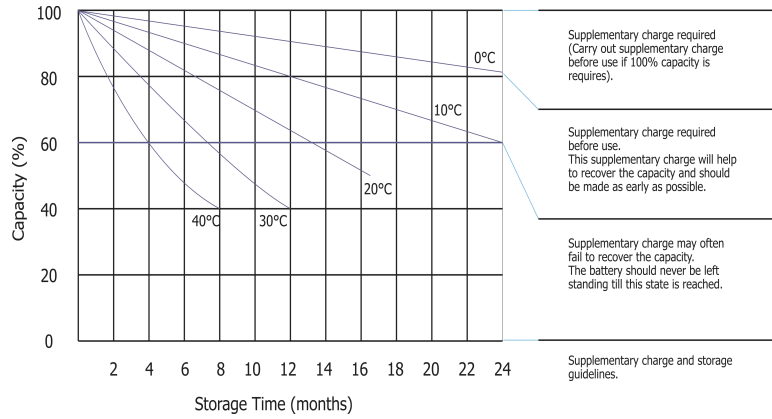
F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	10h	20h
1.80V/cell	345.1	243.4	205.5	127.8	98.7	82.4	47.6	36.0	25.2	14.95	7.80
1.75V/cell	366.8	260.9	215.9	133.1	102.8	84.2	48.9	36.8	25.6	15.14	7.92
1.70V/cell	388.0	274.6	227.1	137.4	106.1	85.4	50.0	37.5	25.9	15.26	8.00
1.65V/cell	418.3	287.4	235.4	144.8	109.2	88.2	51.1	38.2	26.4	15.36	8.08
1.60V/cell	442.1	299.0	245.6	149.6	112.0	91.0	52.1	38.9	26.8	15.47	8.15

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

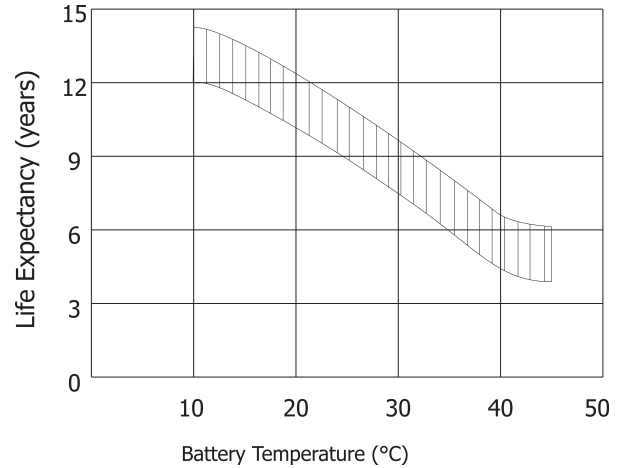
Dimension



Storage Characteristics



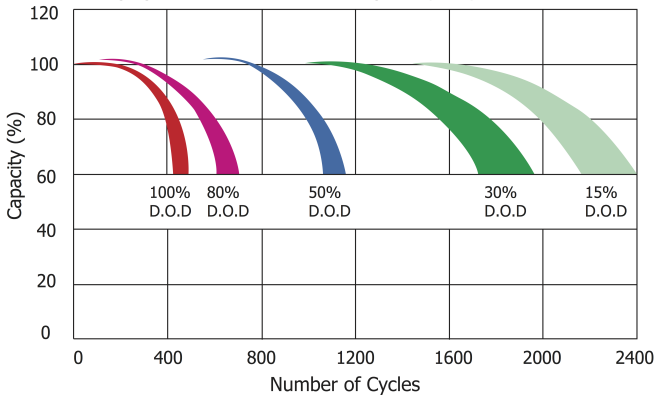
Effect Of Temperature On Float Life



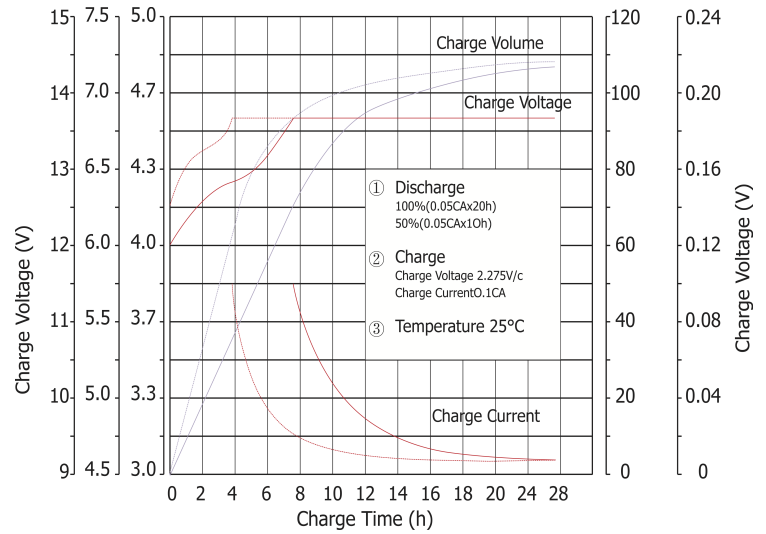
Cycle Life With Depth Of Discharge (D.O.D.)

Testing condition

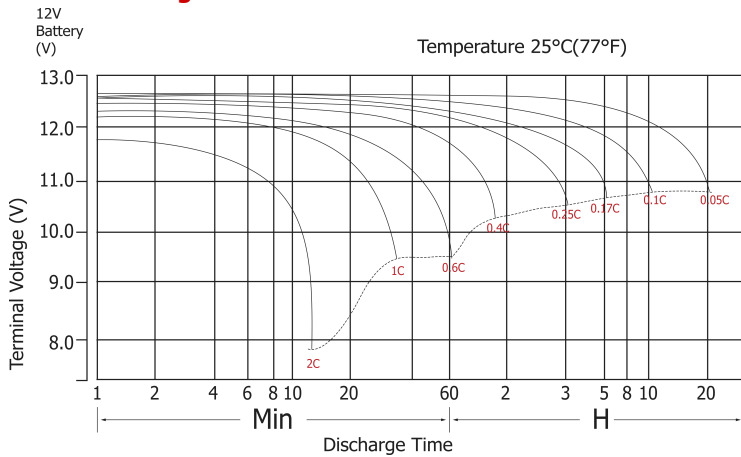
Discharging: current 0.17C (FV 1.7V/cell);
 Charging: current 0.25C max, voltage 2.45V/cell;
 Charging volume: 125% of discharged capacity



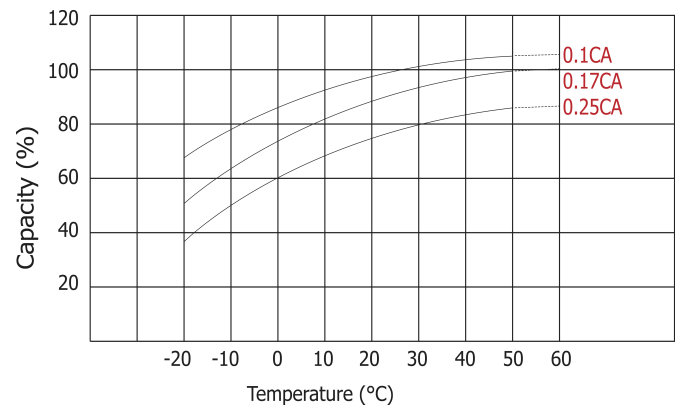
Charge Characteristics Curve For Standby Use



Discharge Characteristics Curve



Temperature Effects With Capacity



Certificates

