

MLG12-270 (12V270AH 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	284AH (20hr, 1.80V/cell, 25°C/77°F)		Charge: 0-40°C (32-104°F)
	270AH (10hr, 1.80V/cell, 25°C/76°F)	Nominal Operating Temp.Range	Storage: -15-40°C (5-104°F)
	229AH (5hr, 1.75V/cell, 25°C/76°F)		25 ± 3°C (77 ± 5°F)
	162AH (1hr, 1.60V/cell, 25°C/76°F)	Cycle Use	14.4~14.8V (25°C/77°F) Temp.Coefficient -30mV/°C
Dimension	Length 520 ± 2mm	Standby Use	Initial Charging Current Less than 81A
	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)224 ± 2mm		40°C (104°F) 103%
Approx Weight	Approx 73.0Kg		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	2500A (5S)		At 25°C (77°F) and then a freshening charge is required.
Internal Resistance	Approx 2.0mΩ		For higher temperatures the time interval will be shorter.

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

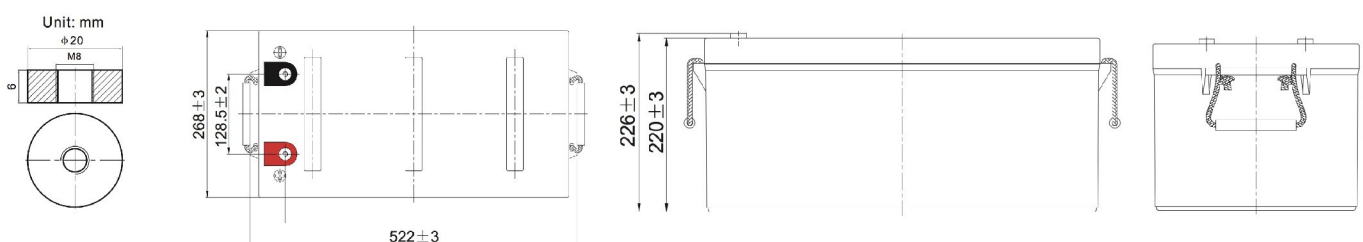
F.V/Time	5min	10min	20min	30min	45min	1h	2h	3h	5h	10h	20h
1.80V/cell	-	438	323	234	180	148.5	87.8	65.9	44.8	27.0	14.2
1.75V/cell	-	476	347	244	186	153.2	90.3	67.6	45.9	27.3	14.3
1.70V/cell	-	503	363	252	192	157.6	92.8	69.1	46.7	27.6	14.4
1.65V/cell	-	536	386	266	200	163.8	95.5	71.1	47.7	27.9	14.6
1.60V/cell	-	573	409	278	208	169.3	98.1	72.3	48.5	28.2	14.8

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

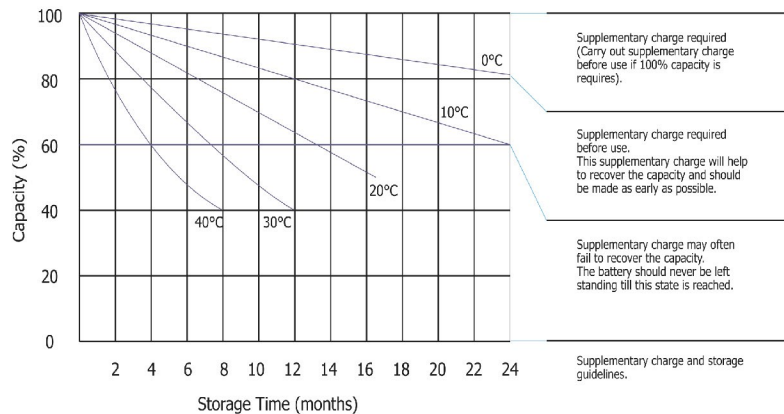
F.V/Time	5min	10min	20min	30min	45min	1h	2h	3h	5h	10h	20h
1.80V/cell	-	820	633	446	346	293.1	171.3	129.6	87.9	52.7	27.5
1.75V/cell	-	863	667	465	360	299.8	176.0	132.4	89.2	53.4	27.9
1.70V/cell	-	898	693	480	372	303.9	180.2	135.0	90.3	53.8	28.2
1.65V/cell	-	945	730	506	383	313.9	184.0	137.5	92.2	54.2	28.5
1.60V/cell	-	984	757	522	393	323.7	187.7	140.1	93.5	54.6	28.8

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

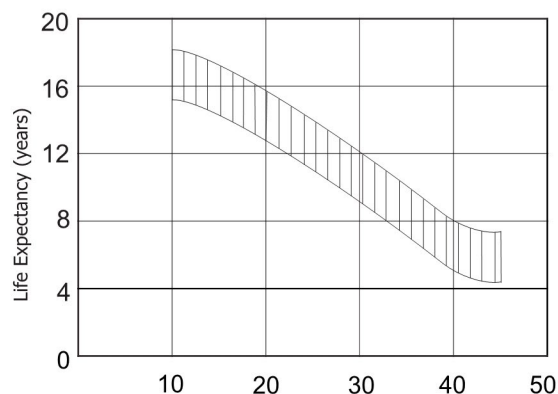
Dimension



Storage Characteristics



Effect Of Temperature On Float Life



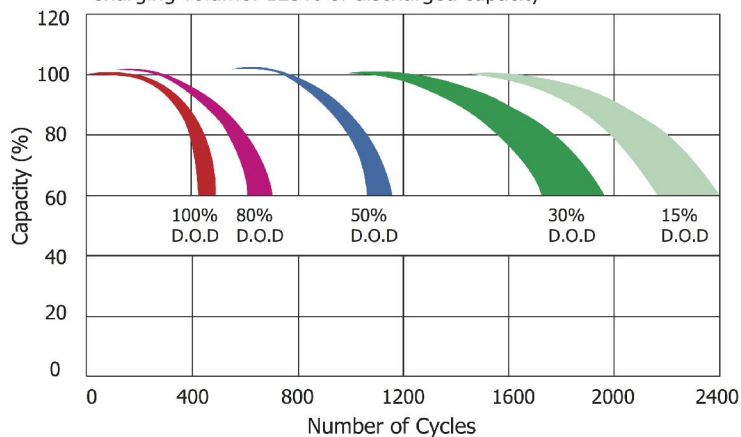
Cycle Life With Depth Of Discharge (D.O.D.)

Testing condition

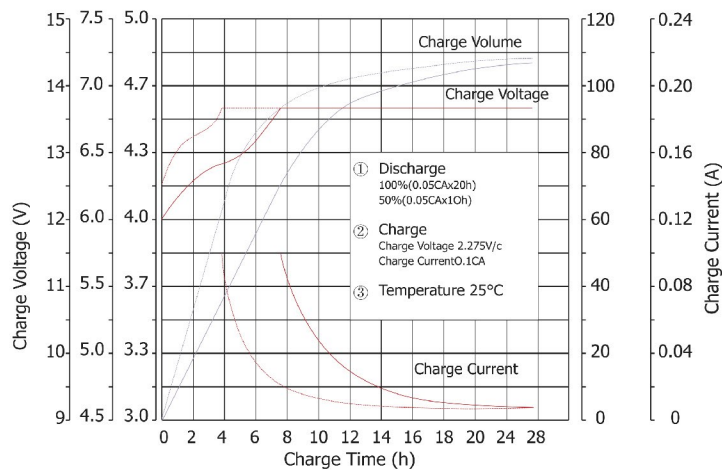
Discharging: current 0.17C (FV 1.7V/cell);

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

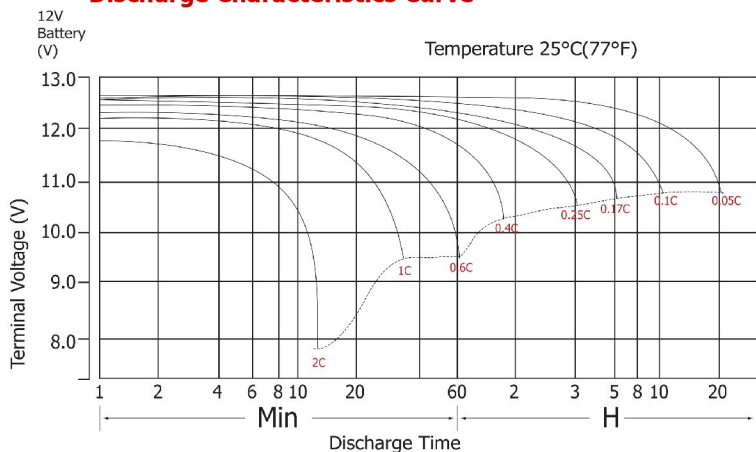
Charging volume: 125% of discharged capacity



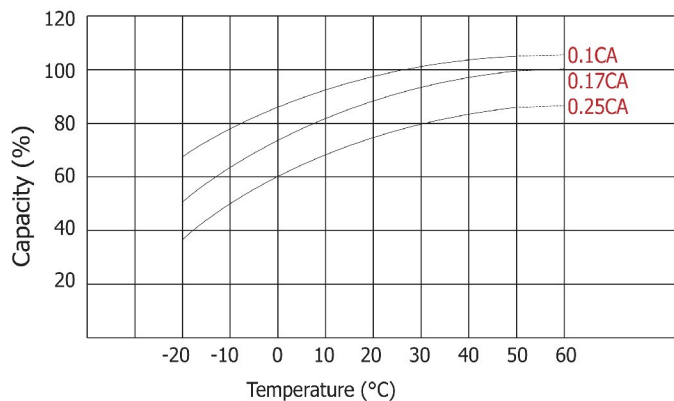
Charge Characteristics Curve For Standby Use



Discharge Characteristics Curve



Temperature Effects With Capacity



Certificates

