

MLG12-28 (12V28AH 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	29.2AH (20hr, 1.80V/cell, 25°C/77°F)		Charge: 0-40°C (32-104°F)
	28AH (10hr, 1.80V/cell, 25°C/77°F)	Storage: -15-40°C (5-104°F)	
	26.2AH (5hr, 1.75V/cell, 25°C/77°F)	Nominal Operating Temp.Range	25 ± 3°C (77 ± 5°F)
Dimension	16.8AH (1hr, 1.60V/cell, 25°C/77°F)	Cycle Use	14.4~14.8V (25°C/77°F) Temp.Coefficient -30mV/°C
	Length 175 ± 2mm	Standby Use	Initial Charging Current Less than 8.4A
	Width 166 ± 2mm		13.5~13.8V (25°C/77°F) Temp.Coefficient -20mV/°C
	Container Height 125 ± 2mm		No limit on Initial Charging Current
Approx Weight	Total Height(with Terminal) 125 ± 2mm	Capacity affected by Temperature	40°C (104°F) 103%
	Approx 8.60Kg		25°C (77°F) 100%
Terminal	T1 or F3		0°C (32°F) 86%
Container Material	ABS	Self Discharge	MLG series batteries may be stored for up to 6 months
Max. Discharge Current	350A (5S)		At 25°C (77°F) and then a freshening charge is required.
Internal Resistance	Approx 12mΩ		For higher temperatures the time interval will be shorter.

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

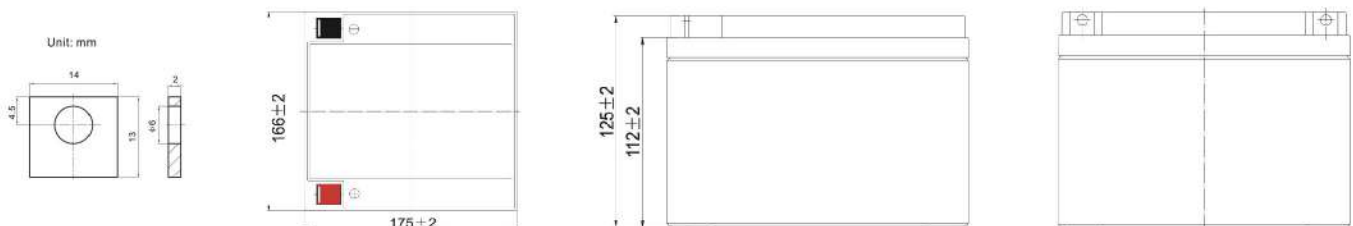
F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	10h	20h
1.80V/cell	71.1	51.3	40.8	25.1	19.3	15.42	9.01	6.76	4.65	2.62	1.415
1.75V/cell	79.1	56.4	44.1	26.2	20.2	15.98	9.35	6.93	4.75	2.68	1.435
1.70V/cell	85.8	60.5	46.5	27.2	20.8	16.44	9.56	7.12	4.84	2.74	1.462
1.65V/cell	92.1	65.3	49.7	28.6	21.6	16.71	9.85	7.30	4.94	2.78	1.490
1.60V/cell	97.0	68.6	52.2	29.6	22.5	17.66	10.11	7.44	5.03	2.84	1.503

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

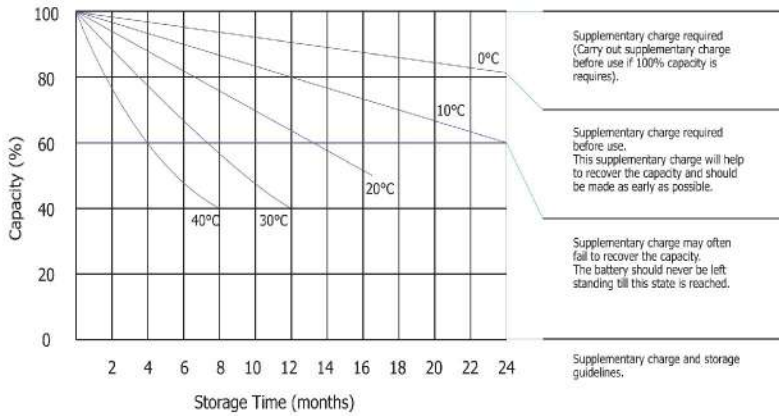
F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	10h	20h
1.80V/cell	132.9	90.5	76.5	47.3	36.7	30.02	17.34	13.12	9.20	5.27	2.817
1.75V/cell	143.1	97.7	81.0	49.4	38.1	30.80	17.90	13.47	9.32	5.38	2.802
1.70V/cell	152.7	102.6	84.8	51.0	39.6	31.27	18.31	13.72	9.48	5.45	2.854
1.65V/cell	159.5	108.0	88.7	53.5	40.9	32.42	18.70	14.03	9.63	5.50	2.894
1.60V/cell	166.1	111.7	91.8	55.4	41.9	33.31	19.07	14.23	9.73	5.57	2.924

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

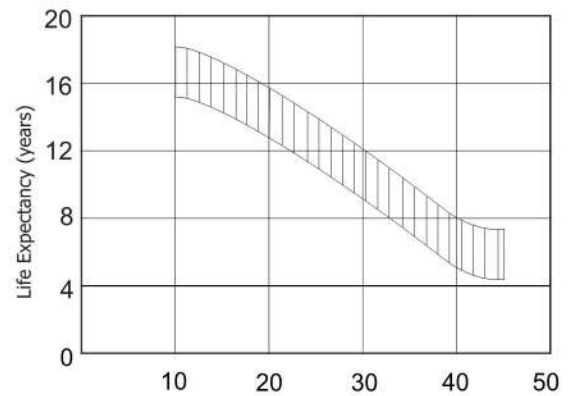
Dimension



Storage Characteristics

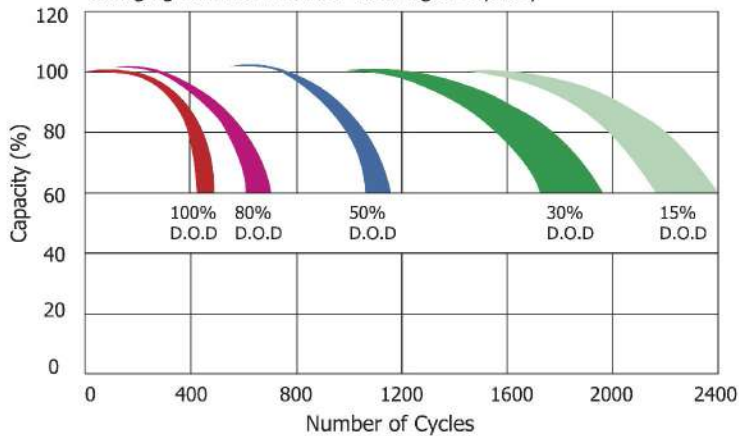


Effect Of Temperature On Float Life

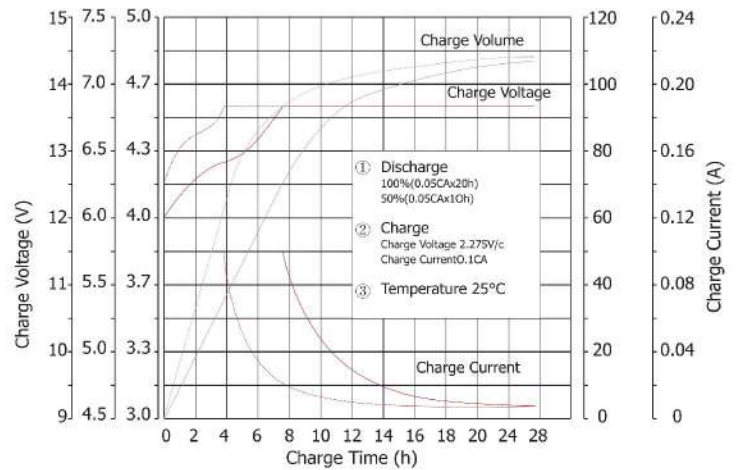


Cycle Life With Depth Of Discharge (D.O.D.)

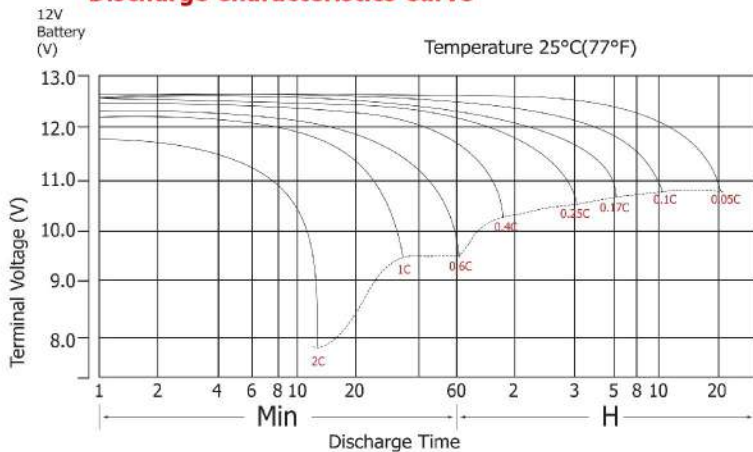
Testing condition
 Discharging: current 0.17C (FV 1.7V/cell);
 Charging: current 0.25C max, voltage 2.45V/cell;
 Charging volume: 125% of discharged capacity



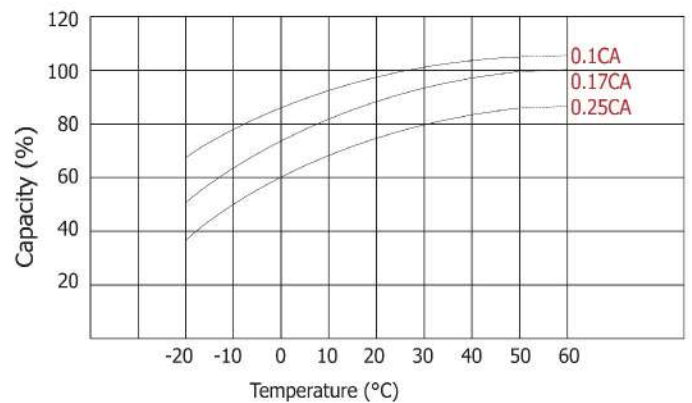
Charge Characteristics Curve For Standby Use



Discharge Characteristics Curve



Temperature Effects With Capacity



Certificates

