MLG12-150 (12V150AH)

Features

- Maintenance-free operation
- Compact design
- Gelled Electrolyte Technology
- Stable quality and high reliability
- 12 years design life (at 25℃)

Application

- Solar and Wind
- Telecommunication system
- Backup power for testing and measuring instruments
- UPS
- Emergency lighting
- Fire alarm and security systems
- Auto control system
- Electronic apparatus and equipment
- Communication power supply
- DC power supply
- Alarm and security system

Specifications

Nominal Voltage	12V (6 cells)	Operating Temp.Range	Discharge: -15 - 50℃ (5 - 122℉)
Nominal Capacity	159AH (20hr, 1.80V/cell, 25 ℃/76℉)		Charge : 0 - 40℃ (32 - 104℉)
	150AH (10hr, 1.80V/cell, 25 ℃/77℉)		Storage : -15 - 40℃ (5 - 104℉)
	128AH (5hr, 1.75V/cell, 25 ℃/77℉)	Nominal Operating Temp.Range	25 ±3 ℃ (77 ± 5℉)
	90AH (1hr, 1.60V/cell, 25 ℃/77℉)	Cycle Use	14.4~14.8V (25℃/77℉) Temp.Coefficient -30mV/℃
Dimension	Length 483 ± 2mm		Initial Charging Current Less than 45A
	Width 170 ± 2mm	Standby Use	13.5~13.8V (25℃/77℉) Temp.Coefficient -20mV/℃
	Container Height 241 ± 2mm		No limit on Initial Charging Current
	Total Height(with Terminal) 241 ± 2mm	Capacity affected by Temperature	40℃ (104℉) 103%
Approx Weight	Approx 45.0Kg		25℃ (77℉) 100%
Terminal	T5 or F7		0℃ (32℉) 86%
Container Material	ABS	Self Discharge	Sunstone MLG series batteries may be stored for up to 9 months
Max. Discharge Current	1500A (5S)		at 25℃ (77℉) and then a freshening charge is required.
Internal Resistance	Approx 4.2mΩ		For higher temperatures the time interval will be shorter.

Constant Current Discharge (Amperes at 25℃/77℉)

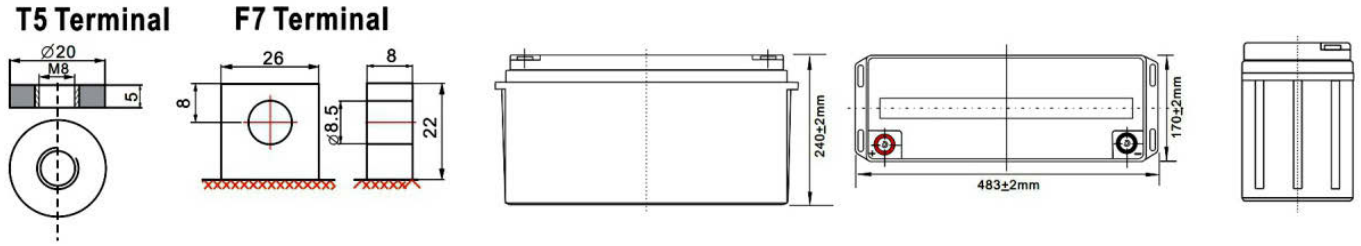
F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	10h	20h
1.80V/cell	\	261.9	213.6	133.1	102.9	84.7	50.0	37.5	25.8	15.6	8.21
1.75V/cell	\	287.7	231.7	138.7	106.8	87.3	51.4	38.5	26.4	15.9	8.33
1.70V/cell	\	307.3	333.6	143.4	110.3	89.9	52.8	39.3	26.9	16.1	8.42
1.65V/cell	\	327.7	352.6	151.3	114.9	93.4	54.3	40.4	27.4	16.3	8.54
1.60V/cell	\	350.2	368.7	158.0	119.1	96.6	55.8	41.1	27.9	16.4	8.62

Constant Power Discharge (Watts per cell at 25℃/77℉)

F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	10h	20h
1.80V/cell	\	479.9	405.3	250.2	195.6	164.9	96.2	72.8	51.0	31.0	16.19
1.75V/cell	\	514.4	425.6	260.4	203.7	168.6	98.8	74.3	51.8	31.4	16.43
1.70V/cell	\	541.4	447.7	269.2	210.3	171.0	101.1	75.8	52.4	31.6	16.59*
1.65V/cell	\	566.6	464.2	283.9	216.4	176.6	103.3	77.2	53.5	31.8	16.57
1.60V/cell	\	589.6	484.3	292.6	222.1	182.1	105.3	78.6	54.2	32.1	16.91

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

Dimensions unitimm[inches]



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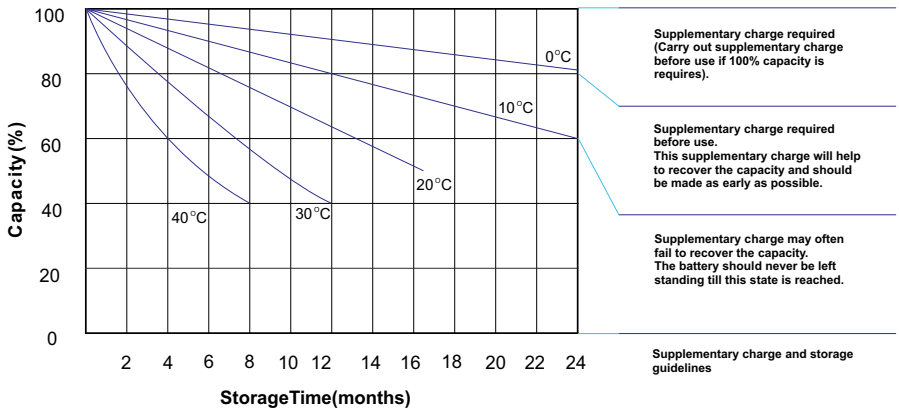
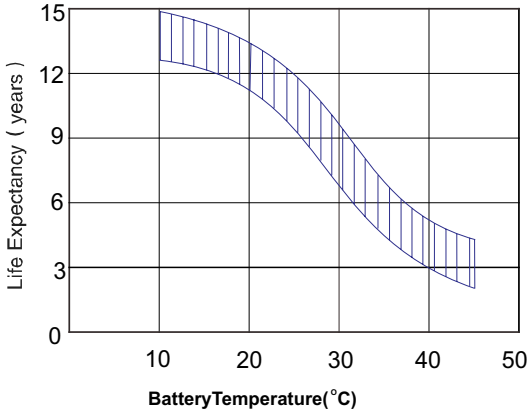
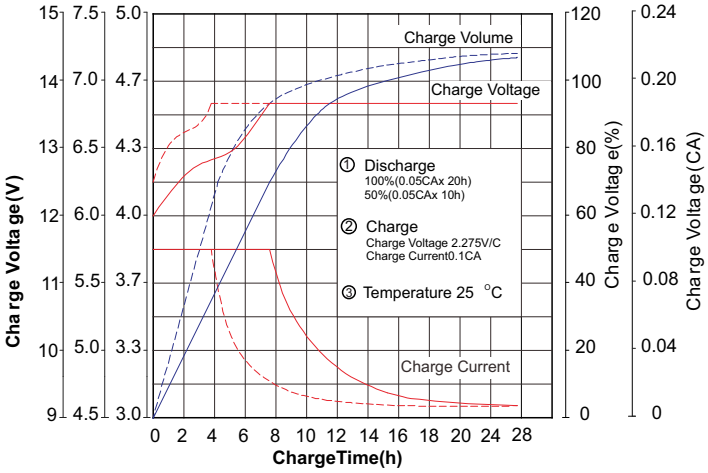
Storage characteristics



Effect of temperature on long term float life

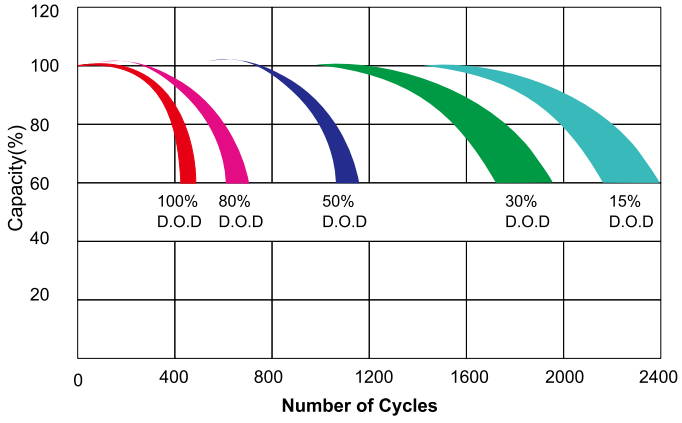


Charge characteristic Curve for standby use

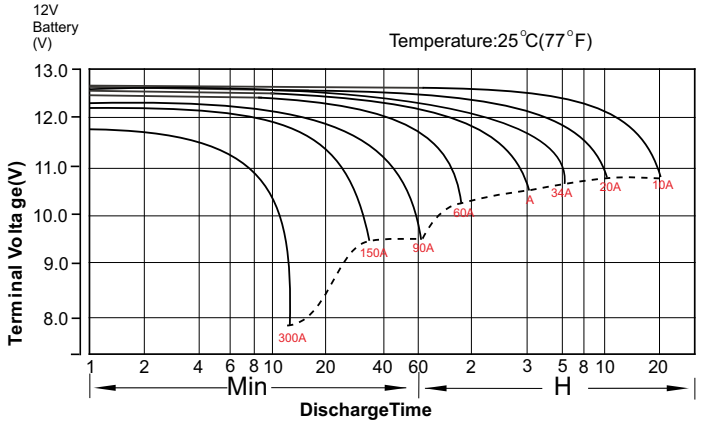


Cycle Life in Relation to Depth of Discharge

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.



Discharge characteristic Curve



Temperature Effects in Relation to Battery Capacity