

ML12-200_(12V200AH)

Features

Maintenance-free operation
Compact design

Stable quality and high reliability
10 years design life(at 25°C)



Application

- Solar and wind system
- Alarm and security 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
- Telecommunication system
- DC power supply

Specifications

Nominal Voltage	12V (6 cells)	Operating Temp.Range	Discharge: -15 - 50°C (5 - 122°F)
Nominal Capacity	212AH (20hr, 1.80V/cell, 25 °C/76°F)		Charge : 0 - 40°C (32 - 104°F)
	200AH (10hr, 1.80V/cell, 25 °C/77°F)		Storage : -15 - 40°C (5 - 104°F)
	170AH (5hr, 1.75V/cell, 25 °C/77°F)	Nominal Operating Temp.Range	25 ± 3°C (77 ± 5°F)
	120AH (1hr, 1.60V/cell, 25 °C/77°F)		14.2~14.4V (25°C/77°F) Temp.Coefficient -30mV/°C
Dimension	Length	Cycle Use	Initial Charging Current Less than 60A
	Width		13.5~13.8V (25°C/77°F) Temp.Coefficient -20mV/°C
	Container Height	Standby Use	No limit on Initial Charging Current
	Total Height(with Terminal)		40°C (104°F) 103%
Approx Weight	Approx 59Kg	Capacity affected by Temperature	25°C (77°F) 100%
Terminal	T5 or F7		0°C (32°F) 86%
Container Material	ABS	Self Discharge	Sunstone ML series batteries may be stored for up to 6 months at 25°C (77°F) and then a freshening charge is required.
Max. Discharge Current	2000A (5S)		For higher temperatures the time interval will be shorter.
Internal Resistance	Approx 3.0mΩ		

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

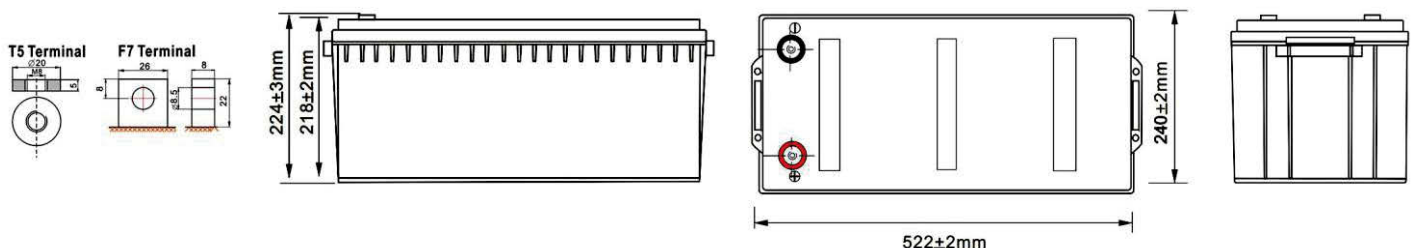
F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	5h	10h	20h
1.80V/cell	\	335.2	273.4	206.5	170.4	131.8	108.4	64.0	48.0	33.0	20.0	10.51
1.75V/cell	\	368.2	296.5	233.8	177.5	136.8	111.8	65.8	49.2	33.8	20.4	10.67
1.70V/cell	\	393.3	320.2	248.2	183.5	141.2	115.0	67.6	50.3	34.4	20.6	10.77
1.65V/cell	\	419.4	338.5	262.0	193.6	147.1	119.6	69.5	51.8	35.1	20.8	10.93
1.60V/cell	\	448.2	354.0	276.4	202.3	152.5	123.6	71.5	52.6	35.8	21.0	11.03

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

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	5h	10h	20h
1.80V/cell	\	614.3	518.8	388.1	320.2	250.4	211.1	123.1	93.2	65.3	39.7	20.72
1.75V/cell	\	658.4	544.8	439.4	339.4	260.8	215.8	126.5	95.1	66.3	40.2	21.03
1.70V/cell	\	692.9	573.1	466.7	366.7	269.2	218.9	129.5	97.0	67.0	40.5	21.23
1.65V/cell	\	725.2	594.2	491.7	391.7	277.0	226.0	132.0	98.8	68.5	40.8	21.44
1.60V/cell	\	754.7	619.9	511.9	411.9	284.2	233.1	135.1	100.7	69.4	41.1	21.65

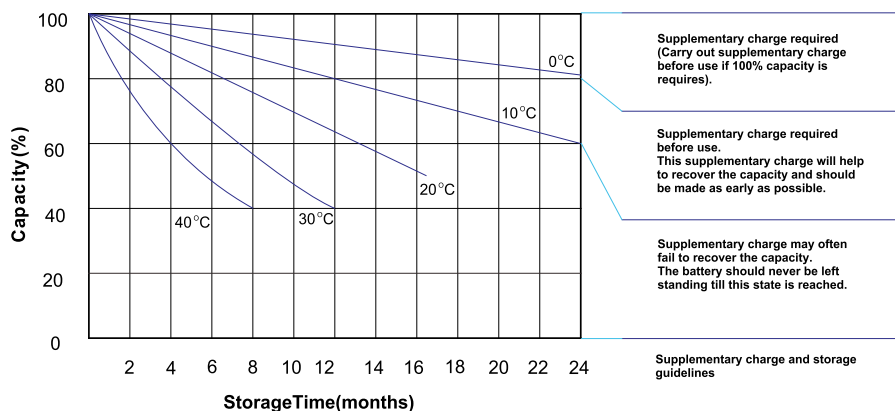
Note: The above characteristics data are average values obtained within three charge/discharge cycles, not the minimum values.

Dimensions unit:mm[inches]

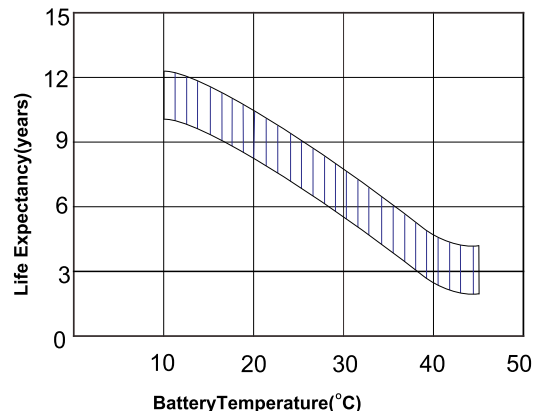


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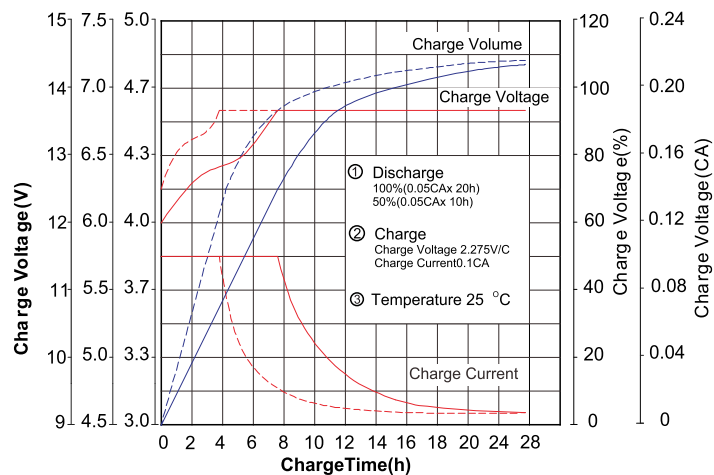
Storage characteristics



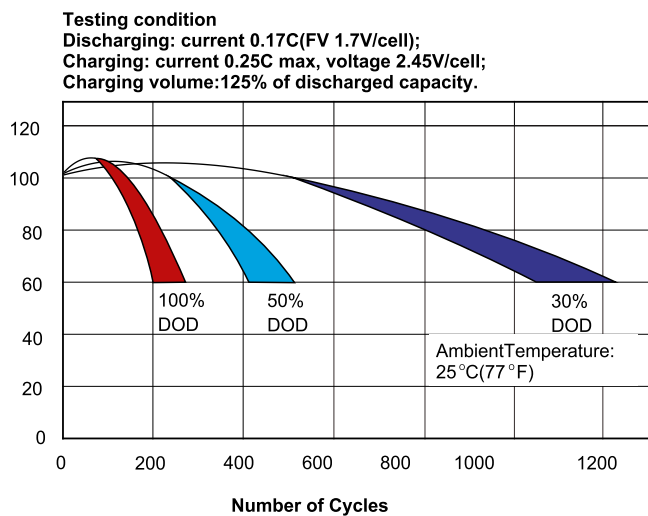
Effect of temperature on long term float life



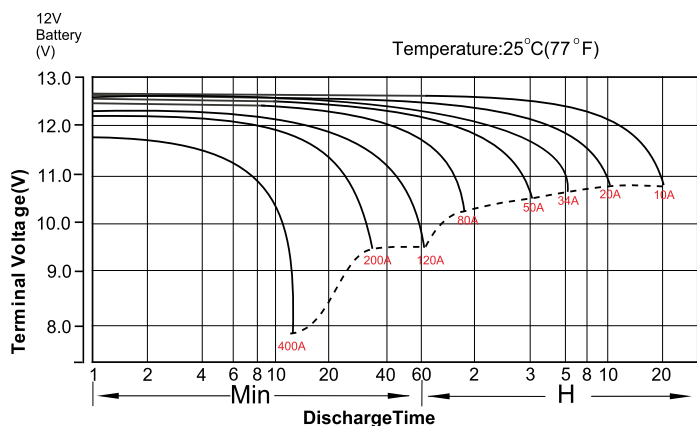
Charge characteristic Curve for standby use



Cycle Life in Relation to Depth of Discharge



Discharge characteristic Curve



Temperature Effects in Relation to Battery Capacity

