

ML12-150_(12V150AH)

Features

Maintenance-free operation
Compact design

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



Application

- Telecommunication 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
- DC power supply

Specification

Nominal Voltage	12V (6 cells)	Operating Temp.Range	Discharge: -15 - 50°C (5 - 122°F)
Nominal Capacity	159AH (20hr, 1.80V/cell, 25 °C/76°F)		Charge : 0 - 40°C (32 - 104°F)
	150AH (10hr, 1.80V/cell, 25 °C/77°F)	Storage : -15 - 40°C (5 - 104°F)	
	128AH (5hr, 1.75V/cell, 25 °C/77°F)	Nominal Operating Temp.Range	25 ± 3°C (77 ± 5°F)
Dimension	90AH (1hr, 1.60V/cell, 25 °C/77°F)	Cycle Use	14.2~14.4V (25°C/77°F) Temp.Coefficient -30mV/°C
	Length 483 ± 2mm	Standby Use	Initial Charging Current Less than 45A
	Width 170 ± 2mm		13.5~13.8V (25°C/77°F) Temp.Coefficient -20mV/°C
	Container Height 241 ± 2mm		No limit on Initial Charging Current
Total Height(with Terminal) 241 ± 2mm	40°C (104°F) 103%		
Approx Weight	Approx 44.0Kg	Capacity affected by Temperature	25°C (77°F) 100%
Terminal	T5 or F7		0°C (32°F) 86%
Container Material	ABS		Self Discharge
Max. Discharge Current	1500A (5S)	For higher temperatures the time interval will be shorter.	
Internal Resistance	Approx 4.5mΩ		

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

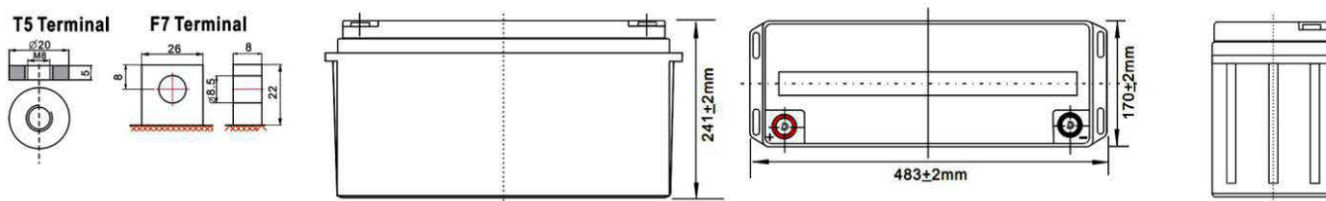
F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	10h	20h
1.80V/cell	\	257.2	209.8	130.7	101.1	83.1	49.1	36.8	25.3	15.3	8.07
1.75V/cell	\	282.5	227.5	136.2	104.9	85.8	50.5	37.8	25.9	15.6	8.18
1.70V/cell	\	301.7	245.7	140.8	108.3	88.3	51.9	38.6	26.4	15.8	8.26
1.65V/cell	\	321.8	259.7	148.5	112.8	91.7	53.3	39.7	26.9	16.0	8.38
1.60V/cell	\	343.9	271.6	155.2	117.0	94.8	54.8	40.4	27.4	16.1	8.46

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	\	471.3	398.0	245.7	192.1	161.9	94.5	71.5	50.1	30.4	15.89
1.75V/cell	\	505.1	417.9	255.7	200.1	165.6	97.0	73.0	50.8	30.8	16.13
1.70V/cell	\	531.6	439.7	264.4	206.5	167.9	99.3	74.4	51.4	31.1	16.29
1.65V/cell	\	556.4	455.9	278.8	212.5	173.4	101.4	75.8	52.5	31.3	16.45
1.60V/cell	\	579.0	475.6	287.4	218.1	178.8	103.4	77.2	53.3	31.5	16.61

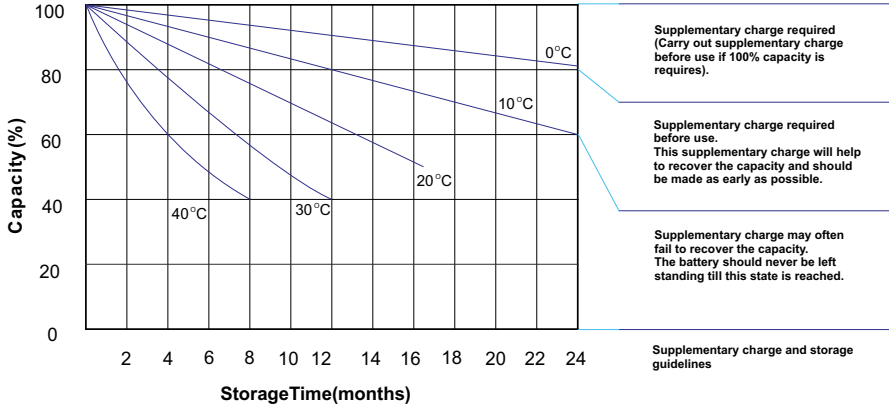
Note: The above characteristics data are average values obtained within three charge/discharge cycles, not the minimum values.

Dimensions unit:mm[inches]

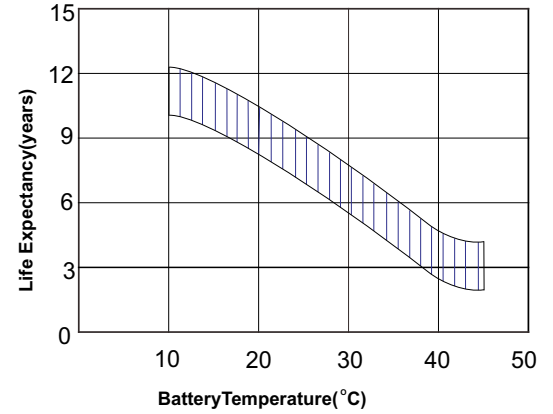


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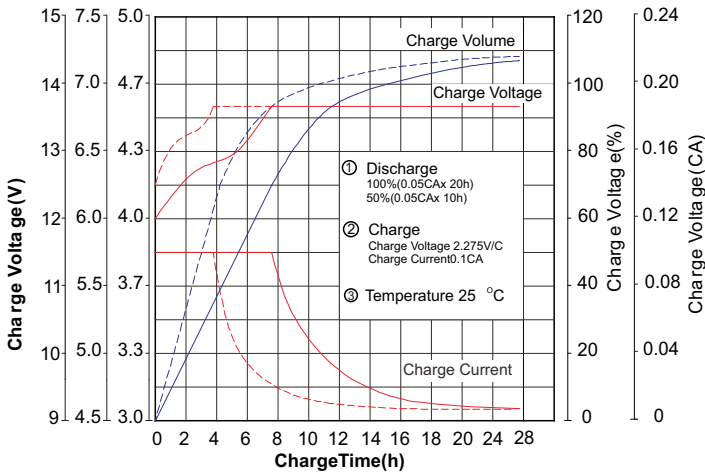
Storage characteristics



Effect of temperature on long term

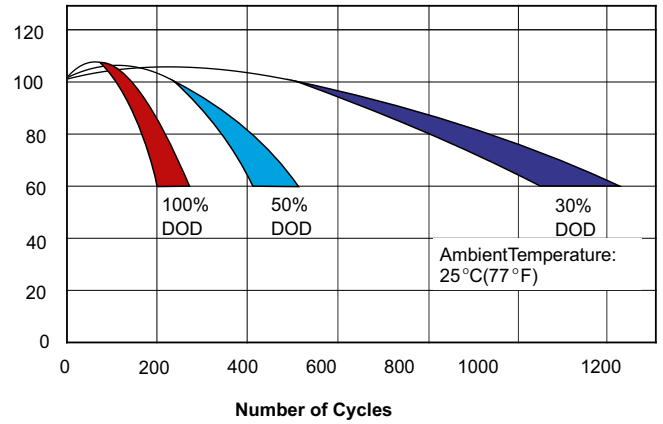


Charge characteristic Curve for standby use

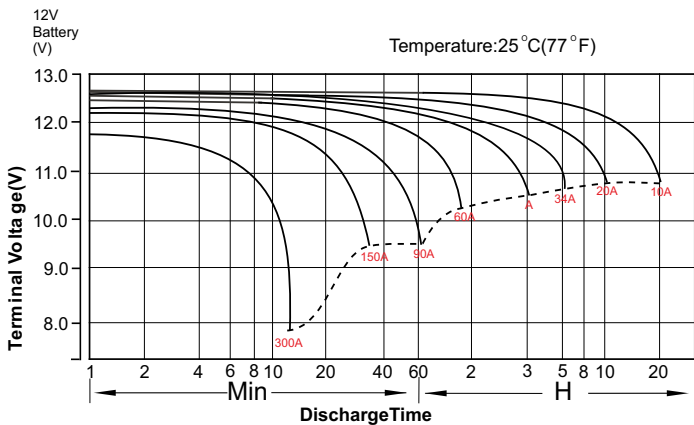


Cycle Life in Relation to Depth of Discharge

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

