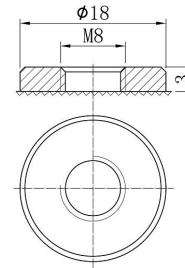




## AGM GEL DEEP CYCLE

12V120AH



### Application

- ☆ UPS power supply
- ☆ Telecom Equipment
- ☆ Power Station
- ☆ Solar system
- ☆ Wind system

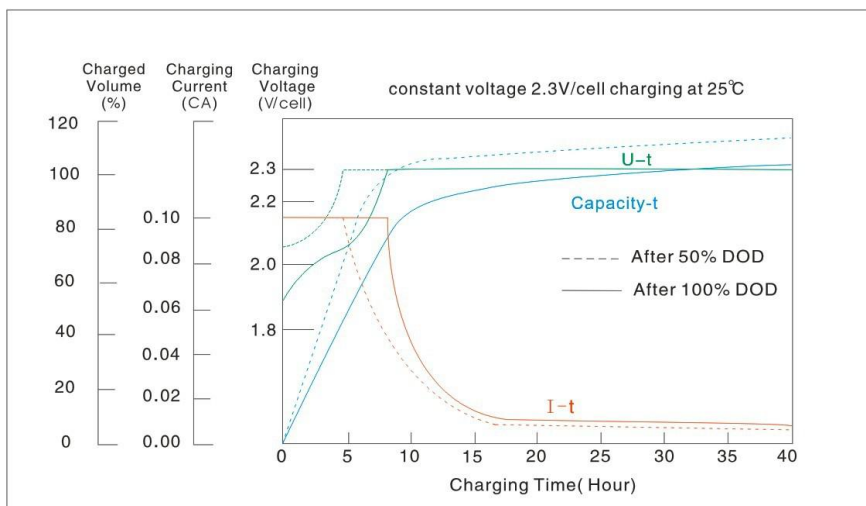
### General Features

- ☆ Thick plates and high-density active material
- ☆ High power density
- ☆ Longer life in deep cycle applications
- ☆ Excellent recovery from deep discharge
- ☆ Extremely low self-discharge rate
- ☆ Wide suitability of ambient temperature -20°C~55°C

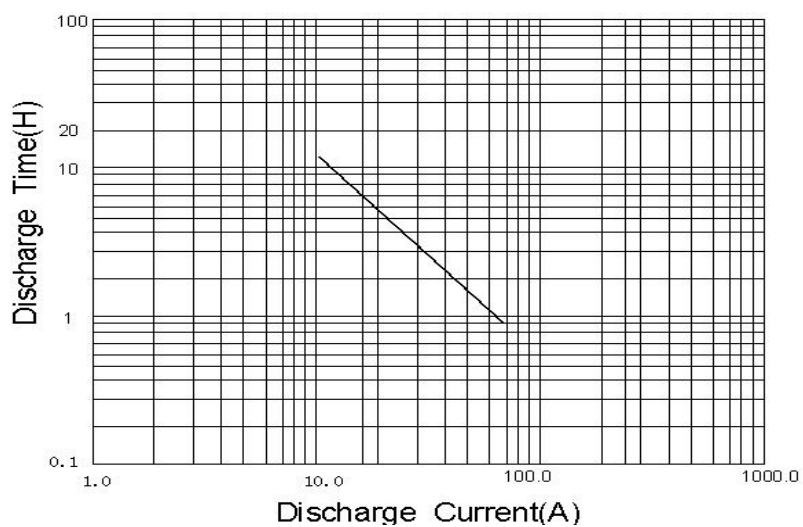
PHYSICAL SPECIFICATIONS		
<b>Nominal Voltage</b>	12V	
<b>Nominal Capacity (10HR)</b>	120AH	
<b>Dimensions</b>	<b>Length</b>	406±4mm
	<b>Width</b>	174±2mm
	<b>Container height</b>	213±2mm
	<b>Total Height (with terminal)</b>	277±2mm
<b>Weight±3%</b>	Approx 35.4Kg(78.04lbs)	
<b>Internal Resistance(In full charge status)</b>	≈4.3mΩ	
<b>Standard Terminals</b>	F22(standard)	

Constant – Voltage Charge	
<b>Cycle application</b>	<ol style="list-style-type: none"> <li>1. Limit initial current less than 24A.</li> <li>2. Charge until battery voltage (under charge) reaches 14.1V to 14.4V at 25°C (77F) .</li> <li>3. Hold at 14.1V to 14.4V until current drop to under 0.72A for at least 3 hours.</li> <li>4. Temperature compensation coefficient of charging voltage is -30mV/°C.</li> </ol>
<b>Standby service</b>	<ol style="list-style-type: none"> <li>1. Hold battery across constant voltage source of 13.6 to 13.8 volts with current limit 24A continuously .When held at this voltage , the battery will seek its own current level and maintain itself in a fully charge status.</li> <li>2. Temperature compensation coefficient of charging voltage is -18mV/°C</li> </ol>
<p>NOTE : The battery should be charged within 9 months of storage ,Otherwise , permanent loss of capacity might occur as a result of sulfation</p>	

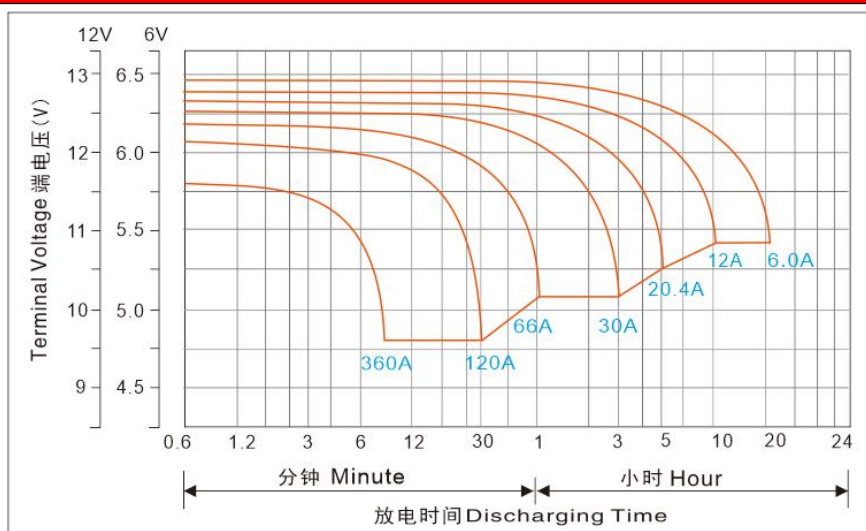
## Charge Characteristics



## Discharge Current & Discharge Duration Time (25°C/77°F)



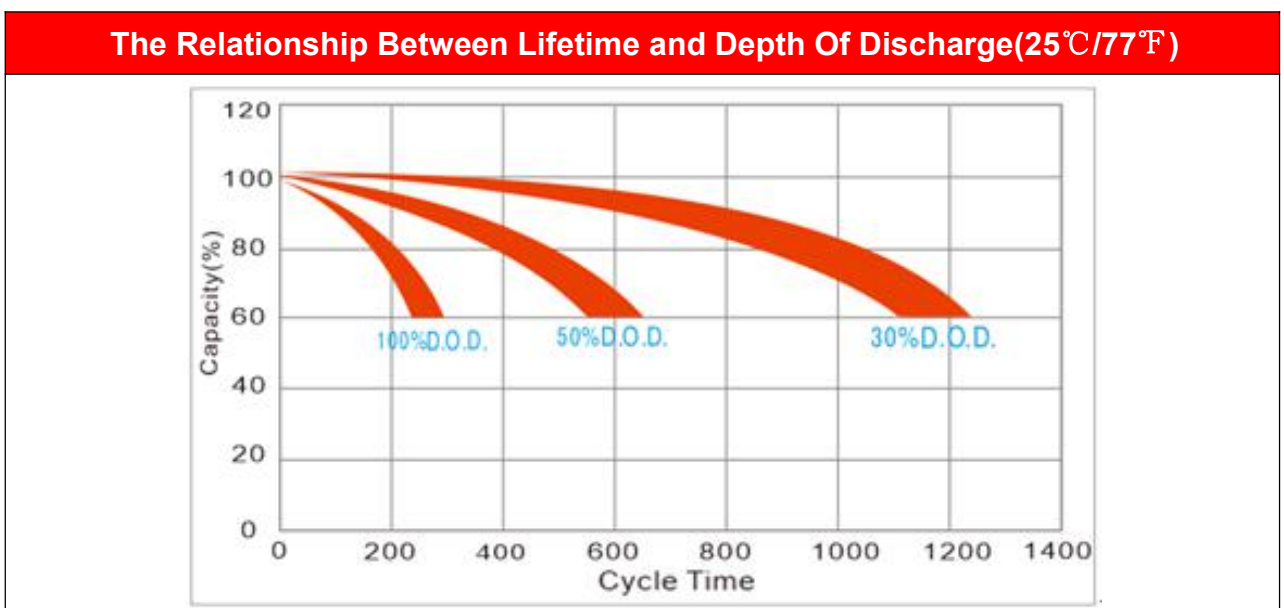
## Discharge Characteristic (25°C/77°F)



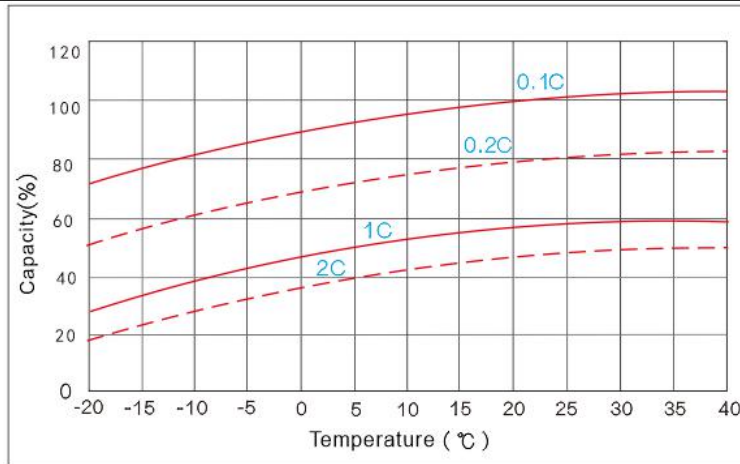
ELECTRICAL SPECIFICATIONS		
<b>Rated Capacity</b>	20 hour rate(6.00A)	123.0AH
	10 hour rate(12.0A)	120.0AH
	5 hour rate(20.4A)	102.0AH
	3 hour rate(30.0A)	90.0AH
	1 hour rate (66.0A)	66.0AH
<b>Capacity affected by Temperature (10Hour Rate)</b>	40°C(104°F)	103%
	25°C(77°F)	100%
	0°C(32°F)	86%

Constant Current Discharge Data Sheet ( Amperes at 25°C)													
End Voltage	Minute (M)					Hour (H)							
	5	10	15	30	45	1	1.5	2	3	5	8	10	20
<b>10.20</b>	374	285	236	114	106	74.2	58.6	48.5	30.7	21.4	15.2	12.6	6.71
<b>10.50</b>	332	261	221	109	101	71.2	56.3	46.7	29.7	20.4	14.4	12.3	6.59
<b>10.80</b>	309	237	207	106	96.1	68.2	54.0	44.9	28.7	19.5	13.6	12.0	6.38

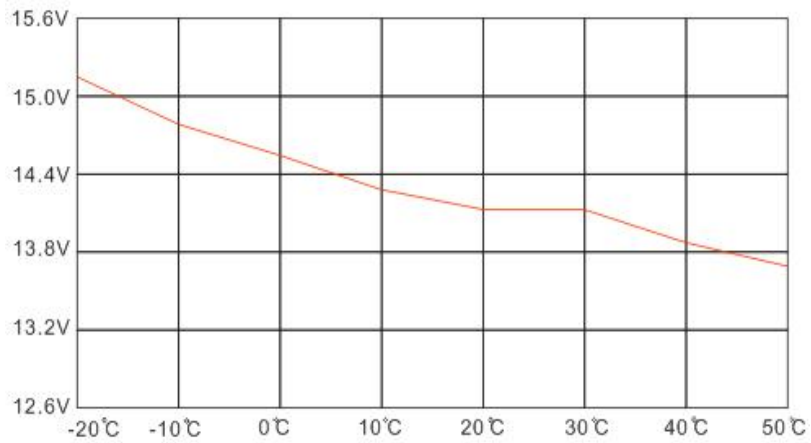
Constant Power Discharge Data Sheet ( Watt at 25°C)													
End Voltage	Minute (M)					Hour (H)							
	5	10	15	30	45	1	1.5	2	3	5	8	10	20
<b>10.20</b>	3722	3151	2546	1425	1070	930	678	510	380	245	182	155	81.0
<b>10.50</b>	3579	2676	2285	1392	1046	916	668	494	368	238	180	150	78.5
<b>10.80</b>	3330	2497	2182	1362	1011	874	637	477	356	230	177	143	76.7



### Capacity Curve at Different Temperature



### Charge Voltage VS Ambient Temperature Curve



### Storage Characteristics

