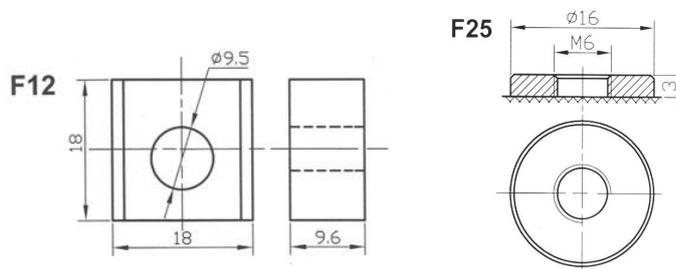


AGM Deep Cycle Battery

Model: BT-55-12 (12V55AH)



Application

- ☆ UPS power supply
- ☆ Telecom Equipment
- ☆ Power station
- ☆ Solar/wind energy storage system

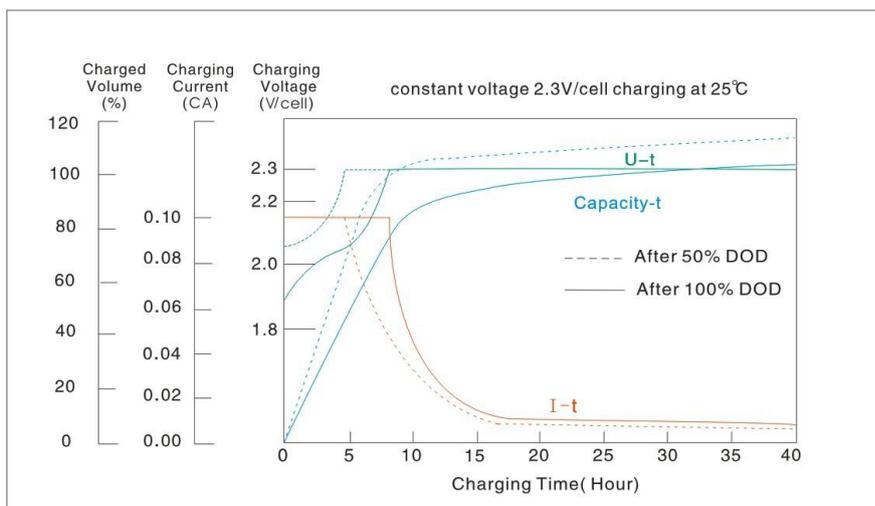
General Features

- ☆ Thick plates and high-density active material
- ☆ High power density
- ☆ Longer life in deep cycle applications
- ☆ Excellent recovery from deep discharge
- ☆ Wide operating temperature range from -10°C-40°C

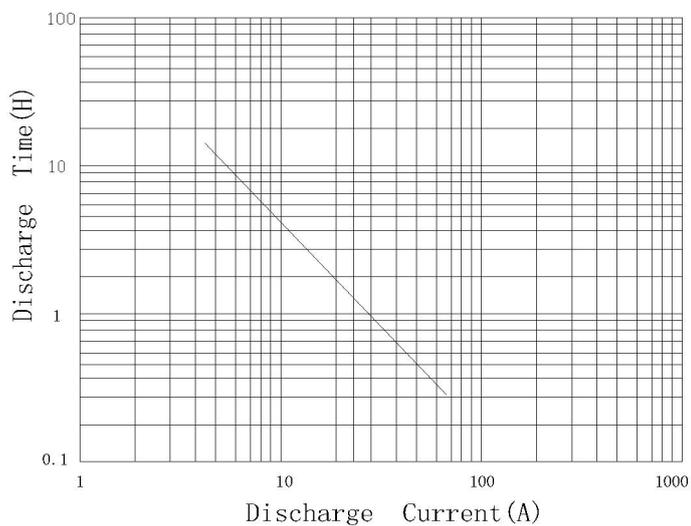
PHYSICAL SPECIFICATIONS		
Nominal Voltage	12V	
Nominal Capacity (10HR)	55AH	
Dimensions	Length	230±2mm
	Width	138±2mm
	Container height	211±2mm
	Total Height (with terminal)	223±2mm
Weight±3%		Approx 15.8Kg(34.83lbs)
Internal Resistance(In full charge status)		≈5.75mΩ
Standard Terminals		F12/F25(standard)

Constant – Voltage Charge	
Cycle application	<ol style="list-style-type: none"> 1. Limit initial current less than 13.75A. 2. Charge until battery voltage (under charge) reaches 14.1V to 14.4V at 25°C (77°F). 3. Hold at 14.1V to 14.4V until current drop to under 0.33A for at least 3 hours. 4. Temperature compensation coefficient of charging voltage is -30mV/°C.
Standby service	<ol style="list-style-type: none"> 1. Hold battery across constant voltage source of 13.6 to 13.8 volts with current limit 13.75A continuously. When held at this voltage, the battery will seek its own current level and maintain itself in a fully charge status. 2. Temperature compensation coefficient of charging voltage is -18mV/°C
<p>NOTE : The battery should be charged within 6 months of storage, Otherwise, permanent loss of capacity might occur as a result of sulfation</p>	

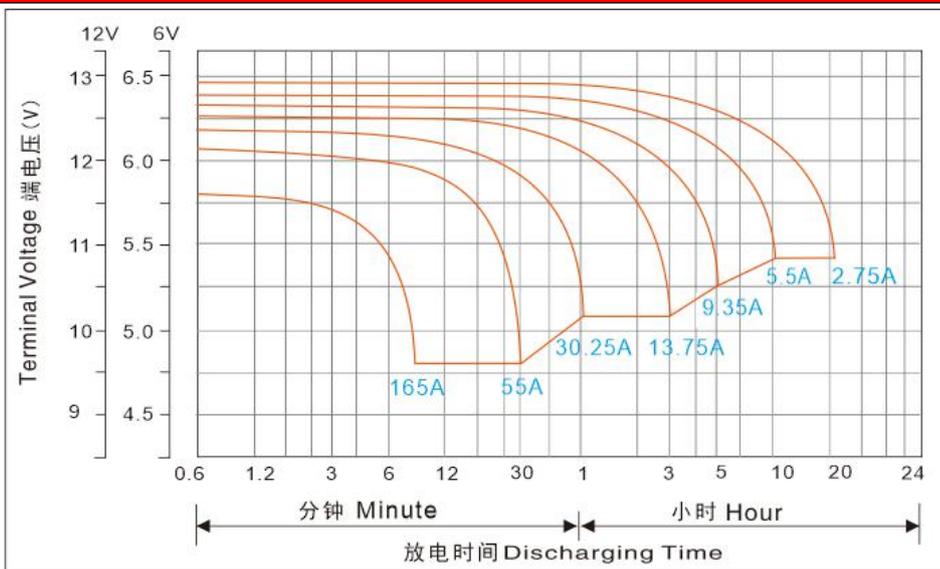
Charge Characteristics



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



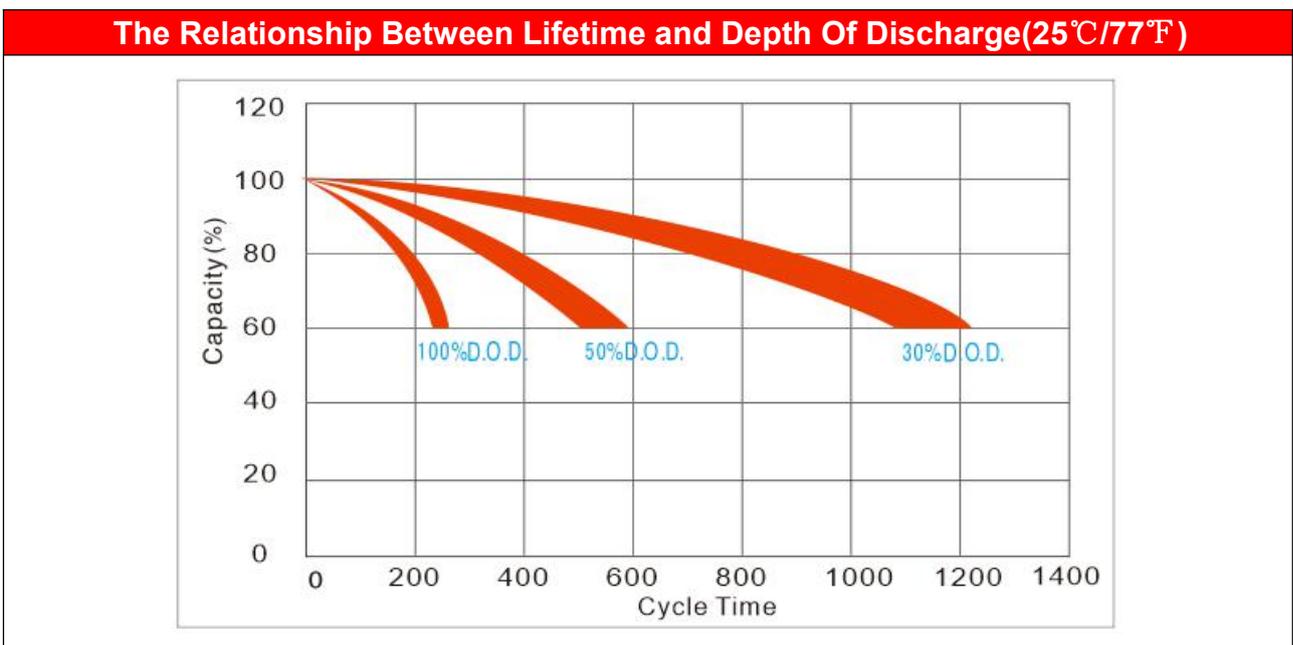
Discharge Characteristic (25°C/77°F)



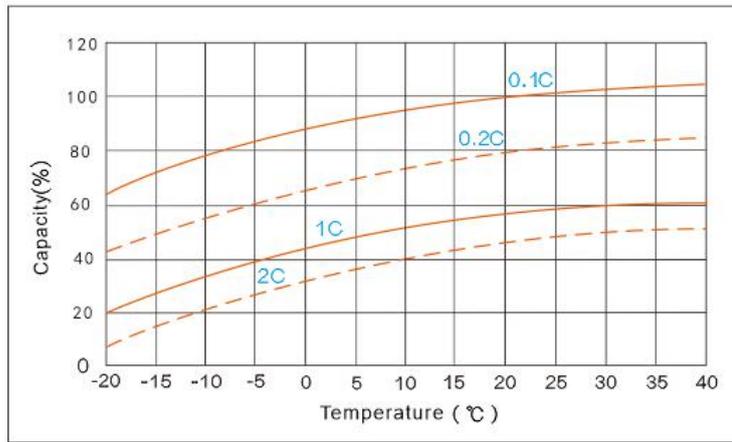
ELECTRICAL SPECIFICATIONS		
Rated Capacity	20 hour rate(2.75A)	57.5AH
	10 hour rate(5.50A)	55.0AH
	5 hour rate(9.35A)	47.0AH
	3 hour rate(13.75A)	41.3AH
	1 hour rate (30.25A)	30.5AH
Capacity affected by Temperature (10Hour Rate)	40°C(104°F)	103%
	25°C(77°F)	100%
	0°C(32°F)	86%

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
10.20	180	140	101.8	50.8	46.9	32.3	26.17	22.22	14.28	9.92	7.06	5.83	3.04
10.50	175	132	97.6	49.8	45.5	31.8	25.57	21.66	13.84	9.73	6.98	5.78	2.99
10.80	165	121	92.0	48.5	43.5	31.5	25.02	21.09	13.36	9.52	6.62	5.52	2.88

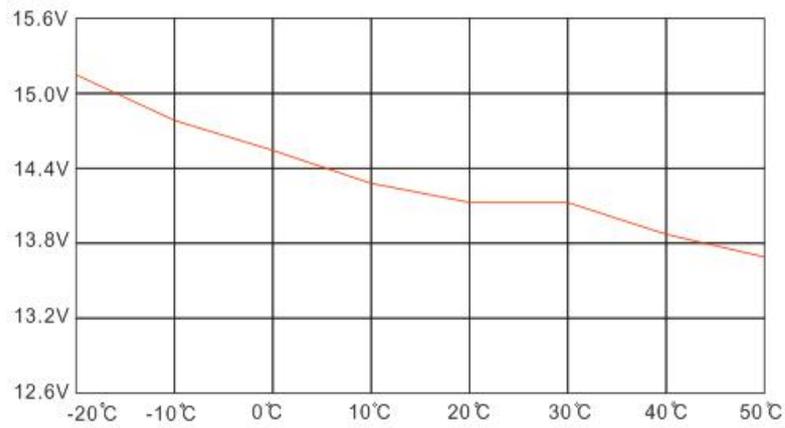
Constant Power Discharge Data Sheet (Watt at 25°C)													
End Voltage	Minute (M)					Hour (H)							
	5	10	15	30	45	1	1.5	2	3	5	8	10	20
10.20	1722	1458	1058	659	495	430	314	236	176	114	84.2	71.5	37.46
10.50	1656	1238	950	644	484	424	309	228	170	110	83.1	69.3	36.30
10.80	1540	1155	907	630	468	404	295	221	164	106	82.0	66.0	35.48



Capacity Curve at Different Temperature



Charge Voltage VS Ambient Temperature Curve



Storage Characteristics

