## **AGM Deep Cycle Battery**

Model: BT-100-12 (12V100AH)





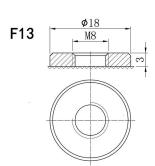






## Application

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



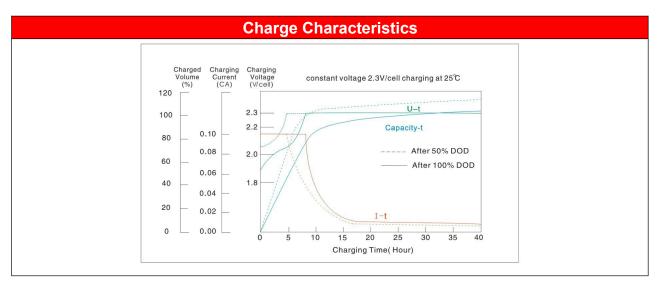
## **General Features**

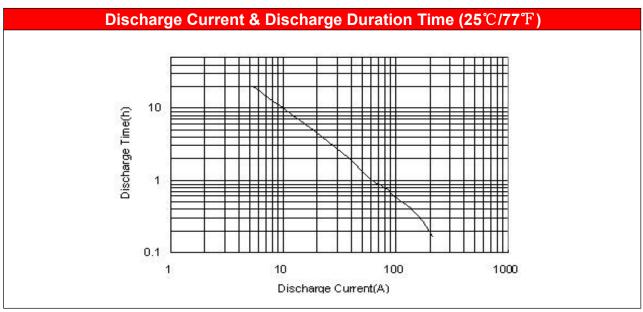
- ☆ Thick plates and high-density active material
- ☆ High power density
- $\Rightarrow$  Longer life in deep cycle applications
- ☆ Wide operating temperature range from -10°C-40°C

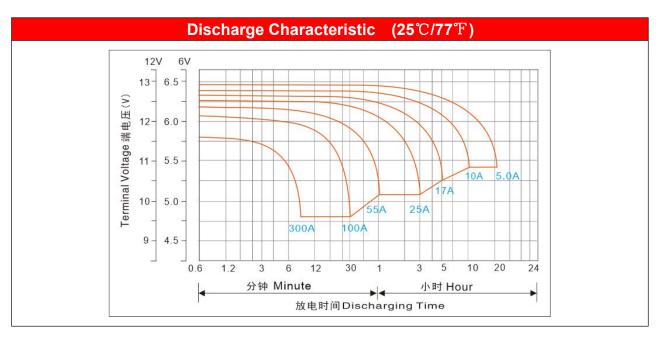
PHYSICAL SPECIFICATIONS								
	Nominal Voltage	12V						
Non	ninal Capacity (10HR)	100AH						
	Length	331±3mm						
Dimensions	Width	173±2mm						
Dimensions	Container height	216±2mm						
	Total Height (with terminal)	222±2mm						
	Weight±3%	Approx 30.0Kg(66.14lbs)						
Internal Res	sistance(In full charge status)	≈4.53mΩ						
S	F13(standard)							

Constant – Voltage Charge									
	1.	Limit initial current less than 25A.							
Cycle application	2.	Charge until battery voltage (under charge) reaches 14.1V to 14.4V at 25 $^{\circ}\!$							
Cycle application	3.	Hold at 14.1V to 14.4V until current drop to under 0.6A for at least 3 hours.							
	4.	Temperature compensation coefficient of charging voltage is -30mV/℃.							
	1.	Hold battery across constant voltage source of 13.6to 13.8 volts with current limit							
Ctondby comics		25A continuously .When held at this voltage , the battery will seek its own current							
Standby service		level and maintain itself in a fully charge status.							
	2.	Temperature compensation coefficient of charging voltage is -18mV/ $\!\!\!^{\circ}\!\!\!\!\!\!\!^{\circ}$							
NOTE: The battery should b	e cha	rged within 6 months of storage .Otherwise , permanent loss of capacity might occur							

NOTE : The battery should be charged within 6 months of storage ,Otherwise , permanent loss of capacity might occur as a result of sulfation







ELECTRICAL SPECIFICATIONS									
Rated Capacity	20 hour rate(5.0A)	103AH							
	10 hour rate(10A)	100AH							
	5 hour rate(17A)	85AH							
	3 hour rate(25A)	76AH							
	1 hour rate (55A)	56AH							
Capacity affected by	pacity affected by 40°C(104°F)								
Temperature	<b>25</b> ℃( <b>77</b> °F)	100%							
(10Hour Rate)	<b>0</b> ℃(32°F)	86%							

Constant Current Discharge Data Sheet ( Amperes at 25℃)													
End	Minute (M)					Hour (H)							
Voltage	5	10	15	30	45	1	1.5	2	3	5	8	10	20
10.20	315	240	181	95.9	89.0	62.5	49.4	41.3	25.9	17.99	12.80	10.80	5.65
10.50	280	220	169	92.0	85.0	60.0	47.4	39.8	25.1	17.18	12.10	10.50	5.55
10.80	260	200	158	88.9	81.0	57.5	45.5	38.3	24.2	16.44	11.50	10.20	5.38

Constant Power Discharge Data Sheet ( Watt at 25℃)														
End	Minute (M)						Hour (H)							
Voltage	5	10	15	30	45	1	1.5	2	3	5	8	10	20	
10.20	3130	2650	1907	1198	900	782	570	429	320	206	153	130	68.1	
10.50	3010	2250	1712	1171	880	770	562	415	310	200	151	126	66.0	
10.80	2800	2100	1635	1145	850	735	536	401	299	193	149	120	64.5	

