## **Valve Regulated Lead-Acid Battery**

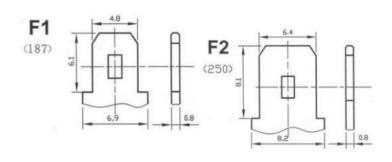






Model: BT-12M12AC(12V12AH)





## **Application**

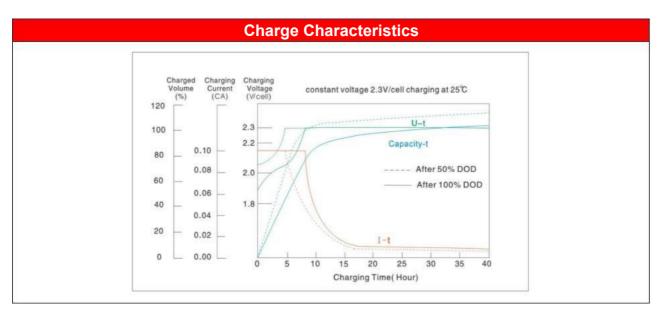
- ☆ Measuring equipment and instrument
- ☆ Telephone sets
- ☆ Lighting equipment
- ☆ Security systems
- ☆ UPS power supply

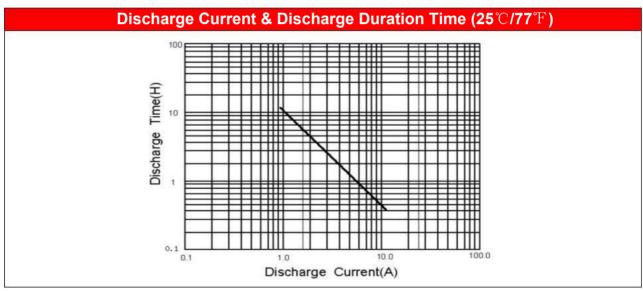
## **General Features**

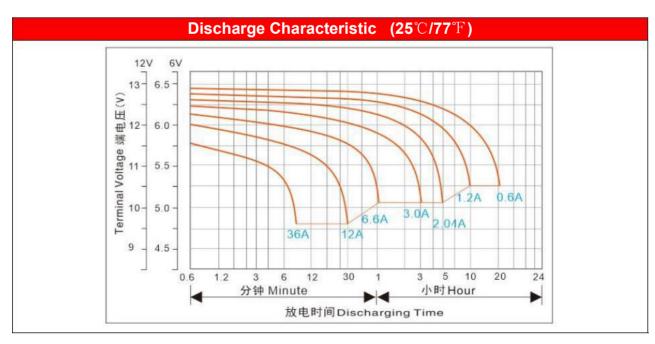
- Designed floating charging service life: 8 years (25℃)
- ☆ Sealed and maintenance free operation
- ☆ Safety valve installation for explosion proof
- ☆ Low self-discharge characteristic
- ☆ Wide operating temperature range from 0°C-40°C
- ☆ Lead Aluminum calcium Tin alloy high energy, prevent corrosion

PHYSICAL SPECIFICATIONS								
	Nominal Voltage	12V						
Non	ninal Capacity (20HR)	12AH						
	Length	151±2mm						
Dimensions	Width	98±1mm						
Dillielisions	Container height	95±1mm						
	Total Height (with terminal)	99±1mm						
	Weight±3%	Approx. 3.45Kg(7.60lbs)						
Internal Res	sistance(In full charge status)	≈13.5mΩ						
S	tandard Terminals	F1/F2(standard)						

Constant – Voltage Charge										
	1.	Limit initial current less than 3.0A.								
Cuala application	2.	Charge until battery voltage (under charge) reaches 14.1V to 14.4V at 25 $^{\circ}\text{C}$ (77F) .								
Cycle application	3.	Hold at 14.1V to 14.4V until current drop to under 0.072A for at least 3 hours.								
	4.	Temperature compensation coefficient of charging voltage is -30mV/ $^\circ\!\mathbb{C}$ .								
-0	1.	Hold battery across constant voltage source of 13.6to 13.8 volts with current limit								
Standby service		3.0A 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/ $^{\!$								
NOTE : The battery should be charged within 6 months of storage ,Otherwise , permanent loss of capacity might occur										
as a result of sulfation	n									







ELECTRICAL SPECIFICATIONS									
	20 hour rate(0.6A)	12.01AH							
	10 hour rate(1.2A)	11.76AH							
Rated Capacity	5 hour rate(2.04A)	10.00AH							
	27 minute rate(12A)	6.00AH							
	7 minute rate (36A)	4.20AH							
Capacity affected by	40℃(104°F)	103%							
Temperature	<b>25</b> ℃(77°F)	100%							
(20Hour Rate)	0℃(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	44.4	28.9	22.6	11.5	8.38	7.20	5.73	4.26	3.22	2.06	1.38	1.16	0.612
10.50	44.0	28.6	22.4	11.5	8.30	7.15	5.63	4.10	3.11	2.02	1.37	1.15	0.606
10.80	43.5	28.3	22.2	11.3	8.22	7.10	5.52	3.94	3.00	1.98	1.35	1.14	0.600

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	484	349	282	159.4	116.2	88.42	67.82	51.02	36.41	24.00	16.90	13.68	7.36
10.50	464	337	274	156.1	113.6	87.02	66.82	50.30	35.59	23.73	16.77	13.47	7.26
10.80	439	325	265	151.6	110.7	85.58	65.83	49.58	34.97	23.45	16.59	13.25	7.16

