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

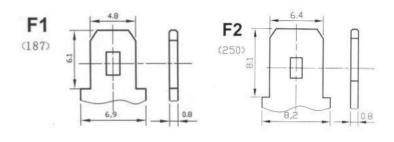






Model: BT-12M7.0AT(12V7.0AH)





## **Application**

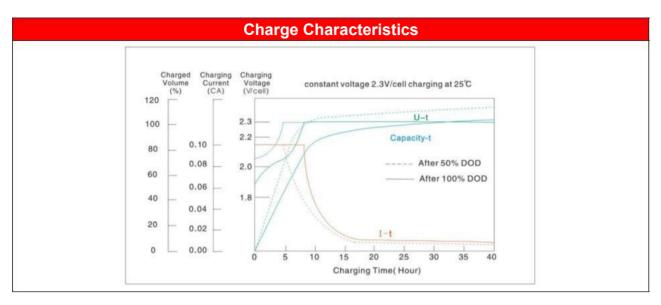
- ☆ Measuring equipment and instrument
- ☆ Telephone sets
- ☆ Lighting equipment
- ☆ Security systems

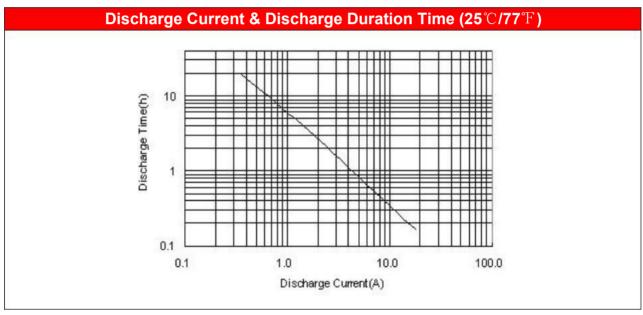
## **General Features**

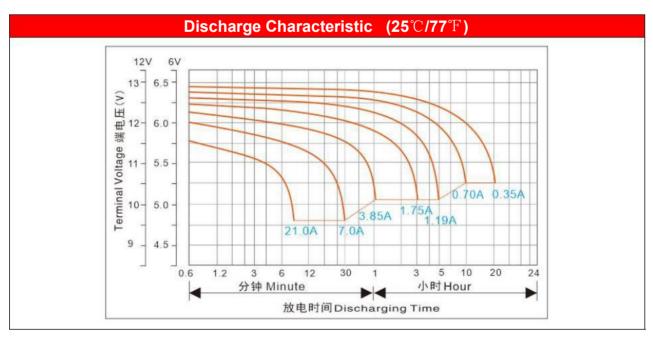
- □ Designed floating charging service life: 8 years (25°C)
- ☆ Sealed and maintenance free operation
- ☆ Safety valve installation for explosion proof
- ☆ Low self-discharge characteristic
- ☆ Wide operating temperature range from 0°C-40°C
- ☆ Lead Aluminum calcium Tin alloy high energy, prevent corrosion

	PHYSICAL SPECIFICATIONS							
	Nominal Voltage	12V						
Nor	ninal Capacity (20HR)	7.0AH						
	Length	151±2mm						
Dimensions	Width	65±1mm						
Dimensions	Container height	95±1mm						
	Total Height (with terminal)	100±2mm						
	Weight±3%	Approx 2.15Kg(4.353lbs)						
Internal Res	≈20.1mΩ							
5	F1/F2(standard)							

Constant – Voltage Charge								
	1.	Limit initial current less than 1.75A.						
0	2.	Charge until battery voltage (under charge) reaches 14.1V to 14.4V at 25 $^{\circ}\mathrm{C}(77^{\circ}\mathrm{F})$ .						
Cycle application	3.	Hold at 14.1V to 14.4V until current drop to under 0.042A for at least 3 hours.						
	4.	Temperature compensation coefficient of charging voltage is -30mV/ $^{\circ}\mathrm{C}$ .						
0	1.	Hold battery across constant voltage source of 13.6to 13.8 volts with current limit						
Standby service		1.75A 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						
NOTE : The battery should t	e ch	arged within 6 months of storage ,Otherwise , permanent loss of capacity might occur						
as a result of sulfation	n							







ELECTRICAL SPECIFICATIONS							
	20 hour rate(350mA)	7.20AH					
	10 hour rate(700mA)	6.75AH					
Rated Capacity	5 hour rate(1.19A)	5.90AH					
	27 minute rate(7A)	3.60AH					
	7 minute rate (21A)	2.50AH					
Capacity affected by	40°C(104°F)	103%					
Temperature	<b>25</b> ℃( <b>77</b> °F)	100%					
(20Hour Rate)	0°C(32°F)	86%					

Constant Current Discharge Data Sheet ( Amperes at 25℃)													
End	nd Minute (M) Hour (H)										A15		
Voltage	5	5 10 15 30 45 1 1.5 2 3 5 8 10 20							20				
10.20	26.82	17.44	13.67	6.976	5.059	4.325	3.447	2.570	1.938	1.244	0.836	0.685	0.367
10.50	26.62	17.24	13.57	6.915	5.008	4.294	3.386	2.478	1.877	1.214	0.826	0.679	0.363
10.80	26.31	17.03	13.36	6.844	4.957	4.263	3.325	2.376	1.815	1.193	0.816	0.672	0.358

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	287.6	207.5	168.0	94.85	69.15	52.61	40.35	30.35	21.66	14.28	10.057	8.139	4.386
10.50	275.4	200.6	163.0	92.90	67.56	51.77	39.76	29.93	21.17	14.12	9.975	8.017	4.325
10.80	261.1	193.2	157.7	90.20	65.85	50.92	39.17	29.50	20.81	13.95	9.873	7.884	4.263

