## Valve Regulated Lead-Acid Battery

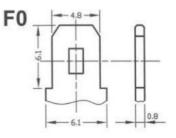


## Model: BT-12M2.2AC (12V2.3AH)



## Application

- $\stackrel{\scriptstyle <}{\rightharpoondown}$  Measuring equipment and instrument
- $\stackrel{\scriptscriptstyle \wedge}{\asymp} \quad \text{Telephone sets} \quad$
- $\stackrel{\text{\tiny theta}}{\sim}$  Security systems

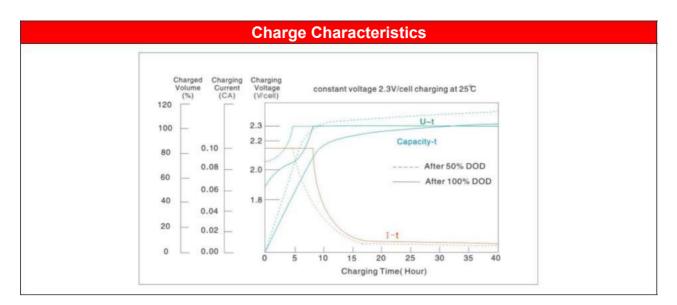


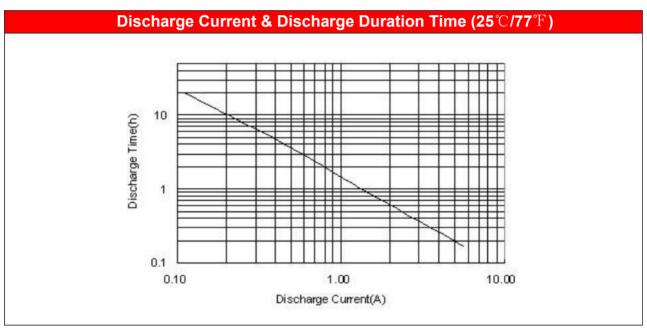
## **General Features**

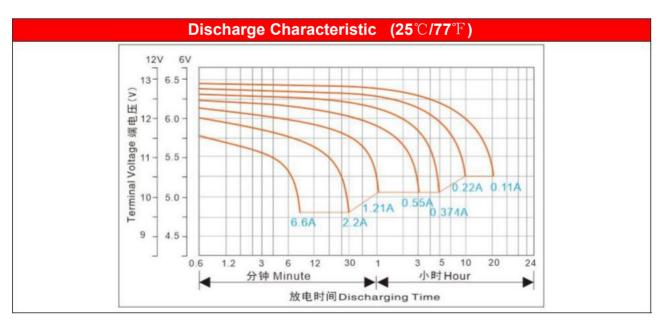
- ☆ Designed floating charging service life: 8 years (25°C)
- $\stackrel{}{\curvearrowright}$  Safety valve installation for explosion proof
- $\stackrel{\scriptscriptstyle\wedge}{\rightarrowtail}$  Low self-discharge characteristic
- $\stackrel{\scriptscriptstyle \wedge}{\sim}$  Wide operating temperature range from 0°C-40°C
- ☆ Lead Aluminum calcium Tin alloy high energy, prevent corrosion

	PHYSICAL SPECIFICATIO	NS				
	Nominal Voltage	12V				
No	minal Capacity (20HR)	2.3AH				
	Length	179±2mm				
Dimensions	Width	36±1mm				
Dimensions	Container height	61±1mm				
	Total Height (with terminal)	66±1mm				
ч. ч.	Weight±3%	Approx.0.92Kg(2.02lbs)				
Internal Re	sistance(In full charge status)	≈75.2mΩ				
	Standard Terminals	F0(standard)				

Constant – Voltage Charge										
		Limit initial current less than0.55A.								
Quala annliastion	2.	Charge until battery voltage (under charge) reaches 14.1V to 14.4V at 25 $^\circ\!\mathrm{C}$ (77F).								
Cycle application	3.	Hold at 14.1V to 14.4V until current drop to under 0.0132A for at least 3 hours.								
	4.	Temperature compensation coefficient of charging voltage is -30mV/ $^\circ\!\!\mathbb{C}.$								
6	1.	Hold battery across constant voltage source of 13.6to 13.8 volts with current limit								
Standby service		$0.55 \ensuremath{A}$ 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/ ${}^\circ\!{\mathbb C}$								
NOTE : The battery should	be ch	arged within 6 months of storage ,Otherwise , permanent loss of capacity might occur								
as a result of sulfation	on									







ELECTRICAL SPECIFICATIONS								
	20 hour rate(110mA)	2.30AH						
	10 hour rate(220mA)	2.00AH						
Rated Capacity	5 hour rate(374mA)	1.80AH						
	27 minute rate(2.2A)	1.10AH						
3	7 minute rate (6.6A)	0.77AH						
Capacity affected by	40℃(104°F)	103%						
Temperature	<b>25℃(77</b> °F)	100%						
(20Hour Rate)	0℃(32°F)	86%						

Constant Current Discharge Data Sheet ( Amperes at 25 $^\circ\!\!\!\!\!\!^\circ$ )														
End	Minute (M)						Hour (H)							
Voltage	5	10	20	30	45	1	1.5	2	3	4	5	8	10	20
10.20	8.14	5.30	2.96	2.12	1.54	1.32	1.05	0.780	0.591	0.450	0.381	0.255	0.204	0.112
10.50	8.02	5.25	2.93	2.10	1.53	1.31	1.03	0.750	0.570	0.435	0.372	0.253	0.202	0.111
10.80	7.89	5.20	2.90	2.08	1.51	1.30	1.01	0.720	0.548	0.420	0.362	0.250	0.200	0.110

Constant Power Discharge Data Sheet(Watt at 25℃)														
End	End Minute (M)					Hour (H)								1
Voltage	5	10	20	30	45	1	1.5	2	3	4	5	8	10	20
10.20	88.69	63.93	38.96	29.23	21.31	16.21	12.43	9.35	6.68	5.51	4.40	3.10	2.51	1.35
10.50	84.98	61.81	38.02	28.63	20.82	15.95	12.25	9.22	6.52	5.39	4.35	3.07	2.47	1.33
10.80	80.52	59.51	37.07	27.80	20.29	15.69	12.07	9.09	6.41	5.27	4.30	3.04	2.43	1.31

