

SAITE POWER SOURCE SCIENCE & TECHNOLOGY CO.,LTD.









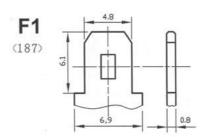
Valve Regulated Lead-Acid Rechargeable Battery

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





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

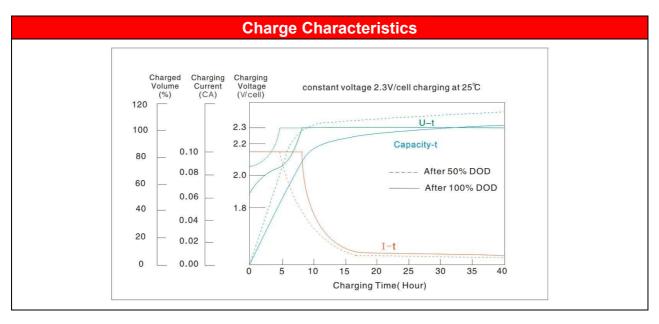


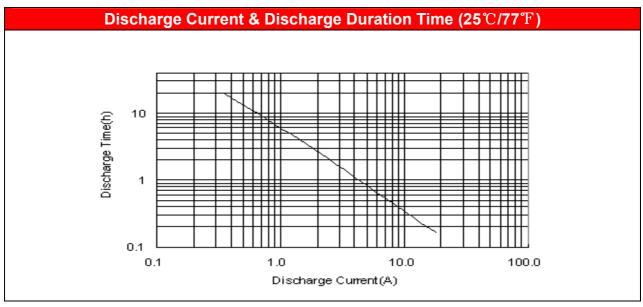
General Features

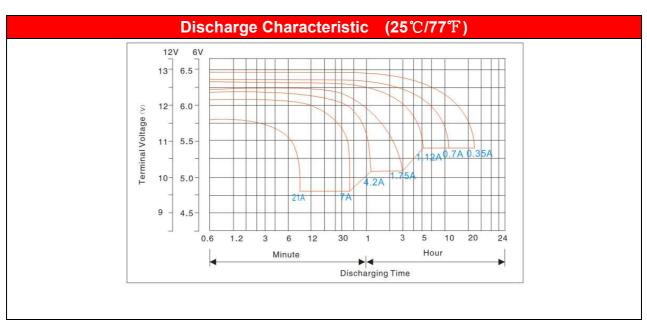
- Designed floating charging service life: 8 years (25℃)
- ☆ Sealed and maintenance free operation
- ☆ Safety valve installation for explosion proof
- ☆ Low self-discharge characteristic
- ★ Wide operating temperature range from 10°C-40°C
- ☆ Lead Aluminum calcium Tin alloy high energy, prevent corrosion

PHYSICAL SPECIFICATIONS						
	Nominal Voltage	12V				
Nor	minal Capacity (20HR)	7.0AH				
	Length	151±2mm				
Dimensions	Width	66±1mm				
Dimensions	Container height	95±1mm				
	Total Height (with terminal)	100±2mm				
	Weight±3%	Approx. 2.0Kg(4.41lbs)				
Internal Re	sistance(In full charge status)	≈ 32mΩ				
•	Standard Terminals	F1 (standard)				

Constant – Voltage Charge							
Cycle application	1.	Limit initial current less than 1.75A.					
	2.	Charge until battery voltage (under charge) reaches 14.1V to 14.4V at 25 $^{\circ}\mathrm{C}$ (77F) .					
	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/°C.					
Standby service	1.	Hold battery across constant voltage source of 13.6to 13.8 volts with current limit					
		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/ $^{\circ}\!\mathrm{C}$					
NOTE: The battery should be	oe cha	arged within 6 months of storage ,Otherwise , permanent loss of capacity might occur					
as a result of sulfation	as a result of sulfation						



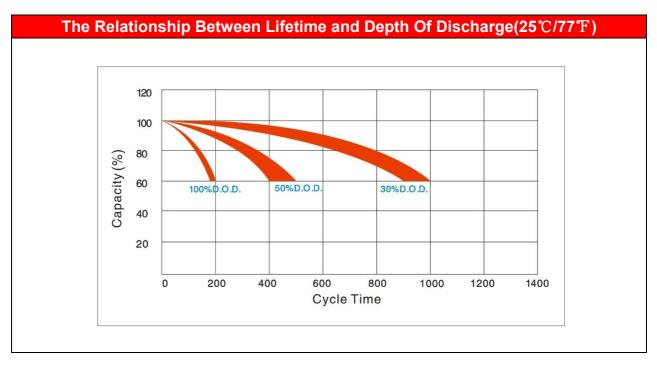


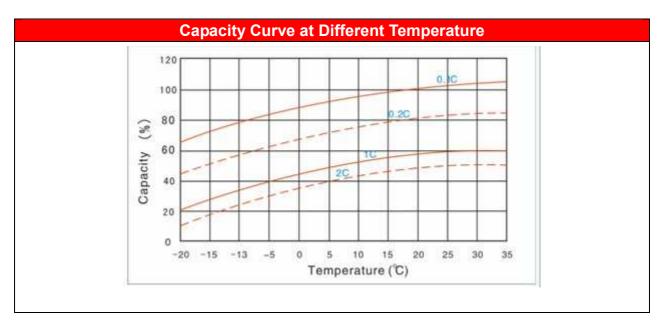


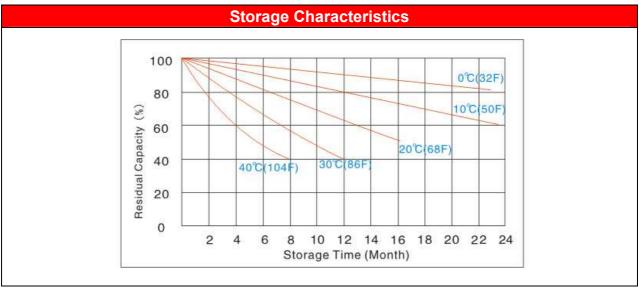
ELECTRICAL SPECIFICATIONS							
	20 hour rate(350mA)	7.0AH					
	10 hour rate(700mA)	6.8AH					
Rated Capacity	5 hour rate(1.12A)	5.6AH					
	27 minute rate(7A)	3.15AH					
	7 minute rate (21A)	2.44AH					
Capacity affected by	40℃(104°F)	103%					
Temperature	25 ℃(77 °F)	100%					
(20Hour Rate)	0℃(32°F)	86%					

Constant Current Discharge Data Sheet (Amperes at 25℃)										
End	Minute (M)				Hour (H)					
Voltage/cell	5	10	20	45	1	2	4	8	10	20
1.70	25.9	16.9	9.42	4.89	4.20	2.49	1.42	0.810	0.663	0.357
1.75	25.7	16.7	9.33	4.84	4.17	2.40	1.385	0.80	0.657	0.354
1.80	25.4	16.5	9.24	4.79	4.14	2.30	1.35	0.790	0.650	0.350

Constant Power Discharge Data Sheet (Watt at 25℃)										
End	Minute (M)					Hour (H)				
Voltage/cell	5	10	20	45	1	2	4	8	10	20
1.70	311	203	113	58.7	50.4	29.9	17.0	9.72	7.89	4.25
1.75	308	201	112	58.1	50.1	28.8	16.6	9.60	7.82	4.21
1.80	305	198	111	57.5	49.7	27.6	16.2	9.48	7.74	4.17







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