



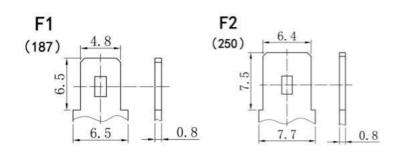




Valve Regulated Lead-Acid Battery

Model: BT-6M4.5AC(6V4.5AH)





Application

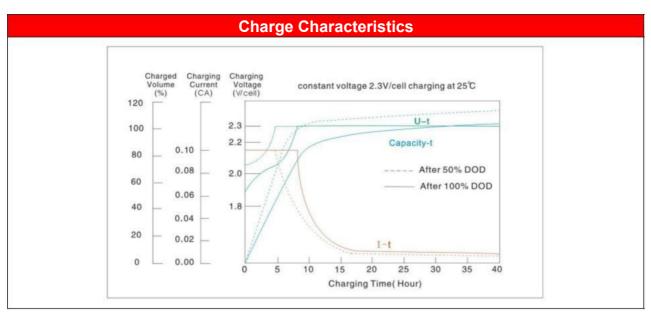
- Measuring equipment and instrument
- Telephone sets
- $\stackrel{\wedge}{\boxtimes}$ Lighting equipment
- Security systems $\stackrel{\wedge}{\simeq}$
- UPS power supply

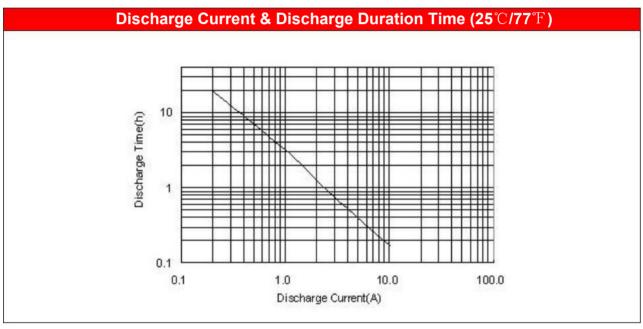
General Features

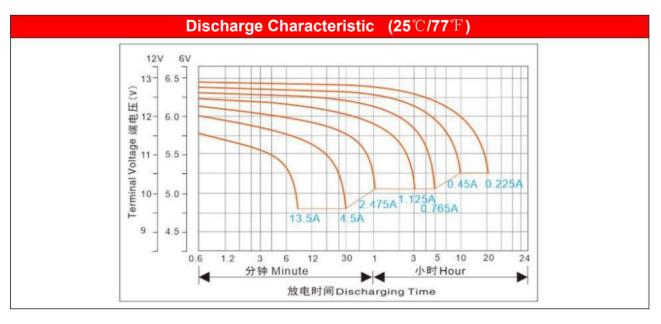
- Designed floating charging service life: 8 years (25℃)
- Sealed and maintenance free operation
- Safety valve installation for explosion proof
- ☆ Low self-discharge characteristic
- ☆ Wide operating temperature range from 0°C-40°C
- ☆ Lead Aluminum calcium Tin alloy high energy, prevent corrosion

PHYSICAL SPECIFICATIONS								
	6V							
Nor	ninal Capacity (20HR)	4.5AH						
	Length	70±2mm						
Dimensions	Width	47±2mm						
Dimensions	Container height	100±2mm						
	Total Height (with terminal)	105±2mm						
	Weight±3%	Approx 0.76Kg(1.67lbs)						
Internal Res	sistance(In full charge status)	≈13mΩ						
Ş	Standard Terminals	F1/F2(standard)						

		Constant – Voltage Charge				
		Limit initial current less than 1.125A.				
Ovele emplication	2.	Charge until battery voltage (under charge) reaches 7.05V to 7.2V at 25 $^{\circ}\mathrm{C}$ (77F) .				
Cycle application	3.	Hold at 7.05V to 7.2V until current drop to under 0.027A for at least 3 hours.				
	4.	Temperature compensation coefficient of charging voltage is -15mV/ $^{\!$				
.0	1.	Hold battery across constant voltage source of 6.8 to 6.9 volts with current limit				
Standby service		1.125A 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 -9mV/ $^{\circ}\!$				
NOTE : The battery should be charged within 6 months of storage ,Otherwise , permanent loss of capacity might occu						
as a result of sulfation						







	ELECTRICAL SPECIFICATIONS					
Rated Capacity	20 hour rate(225mA)	4.50AH				
	10 hour rate(450mA)	4.48AH				
	5 hour rate(765mA)	3.65AH				
	27 minute rate (4.5A)	2.25AH				
	7 minute rate (13.5A)	1.58AH				
Capacity affected by	40℃(104°F)	103%				
Temperature	25℃(77 ℉)	100%				
(20Hour Rate)	0°C(32°F)	86%				

Constant Current Discharge Data Sheet (Amperes at 25℃)														
End Minute (M)					Hour (H)									
Voltage	5	10	20	30	45	1	1.5	2	3	4	5	8	10	20
5.10	16.63	11.10	6.49	4.54	3.41	2.57	2.09	1.60	1.20	0.889	0.754	0.505	0.437	0.230
5.25	15.94	10.89	6.33	4.40	3.33	2.55	2.05	1.54	1.16	0.872	0.742	0.500	0.433	0.228
5.40	15.08	10.63	6.11	4.24	3.19	2.53	2.00	1.47	1.12	0.855	0.730	0.495	0.428	0.225

Constant Power Discharge Data Sheet (Watt at 25℃)														
End	End Minute (M)					Hour (H)								
Voltage	5	10	20	30	45	1	1.5	2	3	4	5	8	10	20
5.10	90.7	65.4	39.84	29.89	21.79	16.58	12.72	9.57	6.83	5.64	4.50	3.17	2.57	1.38
5.25	86.9	63.2	38.88	29.28	21.29	16.32	12.53	9.43	6.67	5.52	4.45	3.14	2.53	1.36
5.40	82.4	60.9	37.92	28.43	20.75	16.05	12.34	9.30	6.56	5.39	4.40	3.11	2.48	1.34

