

LEAD-ACID RECHARGEABLE BATTERY

MODEL: BT-6M4.5AC (6V 4.5Ah)











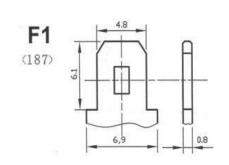
Application

- ☆ 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 10°C-40°C
- ★ Lead Calcium Aluminum Tin alloy high energy, prevent corrosion

PHYSICAL SPECIFICATIONS							
	6V						
No	4.5AH						
	Length	70±1mm					
Dimensions	Width	47±1mm					
	Container height	100±2mm					
	Total Height (with terminal)	104±2mm					
	Approx 0.72 Kg(1.58lbs)						
Internal Re	≈26.1mΩ						
	F1 (standard)						



ELECTRICAL SPECIFICATIONS							
	20 hour rate(225mA)	4.50AH					
	10 hour rate(450mA)	4.27AH					
Rated Capacity	5 hour rate(720mA)	3.6AH					
	27 minute rate(4.5A)	2.03AH					
	7 minute rate(13.5A)	1.57AH					
Capacity affected by	40°C (104°F)	103%					
Temperature	25°C(77°F)	100%					
(20Hour Rate)	0°C(32°F)	86%					

Constant Current Discharge Data Sheet (Amperes at 25°C)										
End Voltage/cell	Minute (M)				Hour (H)					
	5	10	20	45	1	2	4	8	10	20
1.70	16.3	10.6	5.93	3.08	2.57	1.60	0.890	0.505	0.424	0.230
1.75	16.2	10.5	5.88	3.05	2.55	1.54	0.885	0.500	0.420	0.228
1.80	16.0	10.4	5.82	3.03	2.53	1.47	0.880	0.495	0.416	0.225

Constant Power Discharge Data Sheet (Watt at 25°C)											
End Voltage/cell	Minute (M)				Hour (H)						
	5	10	20	45	1	2	4	8	10	20	
1	1.70	97.9	63.7	35.6	18.5	15.4	9.59	5.33	3.03	2.52	1.36
1	1.75	96.9	63.1	35.3	18.3	15.3	9.23	5.30	3.00	2.50	1.35
1	1.80	95.9	62.4	34.9	18.1	15.2	8.84	5.27	2.97	2.48	1.34

Cycle Application

- 1. Limit initial current less than 1.125A.
- Charge until battery voltage (under charge) reaches 7.05V to 7.2V at 25°C (77°F).
- 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/°C.

Standby Service

- Hold battery across constant voltage source of 6.8 to 6.9 volts with current limit 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/°C.

NOTE: The battery should be charged within 6 months of storage, Otherwise, permanent loss of capacity might occur as a result of sulfating.



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