

LEAD-ACID RECHARGEABLE BATTERY

MODEL: BT-12M4.5AC (12V 4.5Ah)











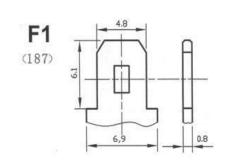
Application

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

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						
	12V					
No	Nominal Capacity (20HR)					
	Length	90±1mm				
Dimensions	Width	70±1mm				
	Container height	101±2mm				
	Total Height (with terminal)	107±2mm				
	Weight±3%					
Internal Re	Internal Resistance(In full charge status)					
;	F1 (standard)					



ELECTRICAL SPECIFICATIONS						
	20 hour rate(225mA)	4.5AH				
	10 hour rate(450mA)	4.28AH				
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	0.889	0.505	0.437	0.230
1.75	16.2	10.5	5.88	3.06	2.55	1.54	0.872	0.500	0.433	0.228
1.80	16.0	10.4	5.82	3.03	2.53	1.47	0.855	0.495	0.428	0.225

Constant Power Discharge Data Sheet (Watt at 25℃)										
End Voltage/cell	Minute (M)				Hour (H)					
	5	10	20	45	1	2	4	8	10	20
1.70	196	127	71.1	37.0	30.8	19.1	10.7	6.06	5.20	2.73
1.75	193.5	126	70.5	36.7	30.6	18.4	10.5	6.00	5.15	2.72
1.80	191	125	69.8	36.3	30.4	17.7	10.3	5.94	5.09	2.68

Cycle Application

- 1. Limit initial current less than 1.125A.
- 2. Charge until battery voltage (under charge) reaches 14.1V to 14.4V at 25°C (77°F).
- 3. Hold at 14.1V to 14.4V until current drop to under 0.027A for at least 3 hours.
- Temperature compensation coefficient of charging voltage is -30mV/°C.

Standby Service

- Hold battery across constant voltage source of 13.6 to 13.8 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.
- Temperature compensation coefficient of charging voltage is -18mV/°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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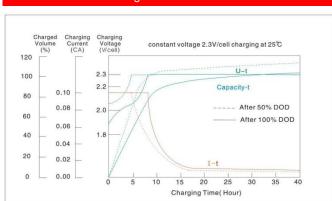








Charge Characteristics



Discharge Current & Discharge Duration Time (25°C/77°C)

