

SEALED LEAD-ACID BATTERIES v1.2

TCB

LEAD-ACID RECHARGEABLE BATTERY

MODEL: 6 HI%&A - '\$5 7 'fl 2V 9.0AhD



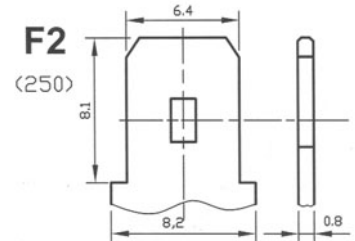
Application

- ☆ 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 Aluminum calcium Tin alloy high energy, prevent corrosion

PHYSICAL SPECIFICATIONS		
Nominal Voltage	12V	
Nominal Capacity (20HR)	9AH	
Dimensions	Length	151±2mm
	Width	66±1mm
	Container height	95±1mm
	Total Height (with terminal)	100±2mm
Weight	Approx 2.3Kg(5.072lbs)	
Internal Resistance(In full charge status)	≈14.2mΩ	
Standard Terminals	F2(standard)	



ELECTRICAL SPECIFICATIONS		
Rated Capacity	20 hour rate(0.45A)	9.0AH
	10 hour rate(0.9A)	8.1AH
	5 hour rate(1.44A)	7.2AH
	27 minute rate(9A)	4.05AH
	7 minute rate (27A)	3.15AH
Capacity affected by Temperature (20Hour Rate)	40°C(104°F)	103%
	25°C(77°F)	100%
	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	33.33	21.75	12.11	6.291	5.403	3.203	1.828	1.043	0.854	0.459
1.75	33.06	21.48	12.01	6.227	5.364	3.088	1.781	1.029	0.845	0.456
1.80	32.68	21.22	11.89	6.164	5.327	2.958	1.737	1.017	0.837	0.450

CYCLE APPLICATION

1. Limit initial current less than 2,25A.
2. Charge until battery voltage (under charge) reaches 14,1V to 14,4V at 25°C.
3. Hold at 14,1V to 14,4V until current drop to under 0,054A for at least 3 hours.
4. Temperature compensation coefficient of charging voltage is -30mV/°C.

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
1.70	400.3	261.1	145.3	75.5	64.8	38.42	21.85	12.51	10.16	5.469
1.75	396.2	258.6	144.0	74.7	64.5	37.00	21.36	12.36	10.06	5.411
1.80	392.2	254.8	142.9	74.0	64.0	35.57	20.88	12.19	9.95	5.364

STANDBY SERVICE

1. Hold battery across constant voltage source of 13,6V to 13,8V with current limit 2,25A 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/°C.

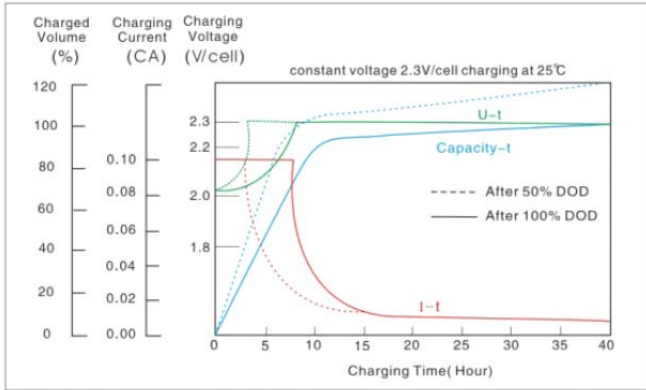
NOTE: the battery should be charged within 6 months of storage. Otherwise, permanent loss of capacity might occur as a result of sulfation.

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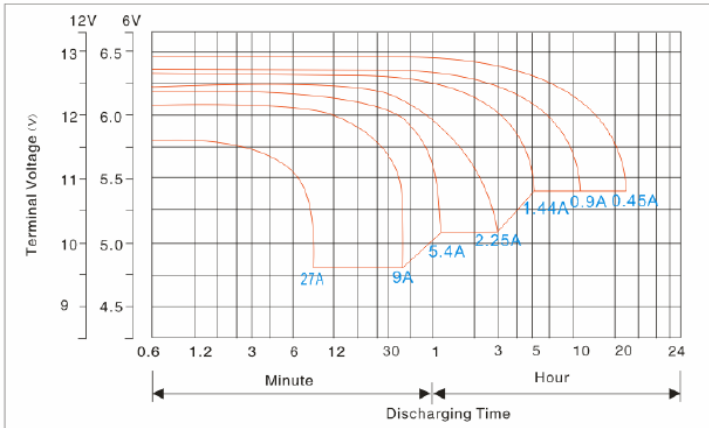
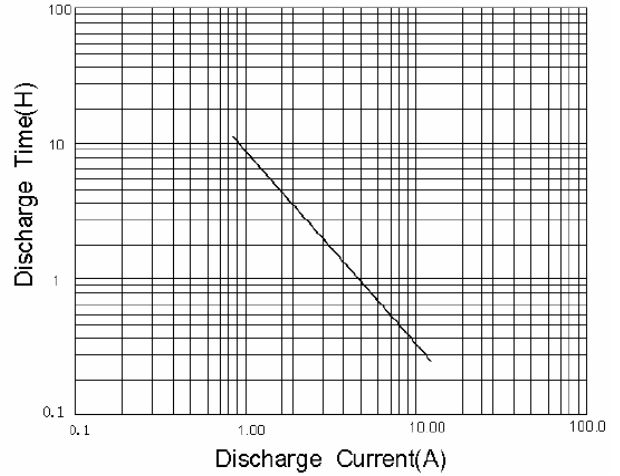
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MODEL: BT-12M9.0AC (12V 9.0Ah)



Charge Characteristics



Discharge Characteristics

