

MinuteBank

VRLA AGM Battery

BT-12M12AC[12V12Ah]



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 0°C~40°C
- Lead Aluminum calcium Tin alloy high energy, prevent corrosion

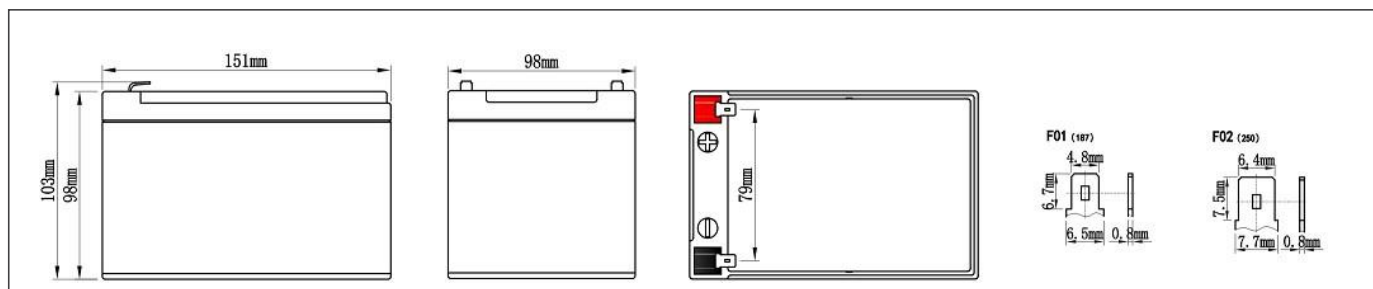
Application

- DC power supply
- UPS/EPS power supply
- Electrical devices & instruments
- Security and fire alarm systems
- Telecom stations and power stations
- Medical equipments
- Emergency lighting systems

Physical Specifications

Nominal Voltage	Nominal Capacity (20HR)	Dimension				Weight ±3%	Internal Resistance (In full charge status)	Standard Terminals
		L	W	H	TH			
12V	12AH	151±2mm	98±2mm	95±2mm	100±2mm	Approx3.45g (7.61lbs)	≈13.5 mΩ	F01/F02 (standard)

Dimensions



Battery Discharge Table

End Voltage (V)	Minute (M)						Hour (H)									
	5	10	15	20	30	45	1	1.5	2	3	4	5	6	8	10	20
Constant Current Discharge Data Sheet (Amperes at 25°C)																
10.20	44.4	28.9	22.6	16.52	11.5	8.38	7.20	5.73	4.26	3.22	2.49	2.06	1.81	1.38	1.16	0.612
10.50	44.0	28.6	22.4	16.40	11.5	8.30	7.15	5.63	4.10	3.11	2.42	2.02	1.78	1.37	1.15	0.606
10.80	43.5	28.3	22.2	16.16	11.3	8.22	7.10	5.52	3.94	3.00	2.36	1.98	1.75	1.35	1.14	0.600
Constant Power Discharge Data Sheet (Watt at 25°C)																
10.20	484	349	282	198.3	159.4	116.2	88.42	67.82	51.02	36.41	29.87	24.00	21.47	16.90	13.68	7.36
10.50	464	337	274	195.8	156.1	113.6	87.02	66.82	50.30	35.59	29.13	23.73	21.26	16.77	13.47	7.26
10.80	439	325	265	193.4	151.6	110.7	85.58	65.83	49.58	34.97	28.40	23.45	21.02	16.59	13.25	7.16

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

Constant-Voltage Charge

Rated Capacity	
20 hour rate (0.60A)	12.01AH
10 hour rate (1.20A)	11.76AH
5 hour rate (2.04A)	10.00AH
27 minute rate (12.0A)	6.00AH
7 minute rate (36.0A)	4.20AH

Capacity affected by Temperature	
40°C(104°F)	103%
25°C(77°F)	100%
0°C(32°F)	86%

Cycle Application
1. Limit initial current less than 3.0A.
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 0.072A 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 13.6 to 13.8 volts with current limit 3.0A 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.

Performance Characteristics

