



**SAITE**  
SAITE POWER SOURCE (VIETNAM) CO., LTD



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## 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

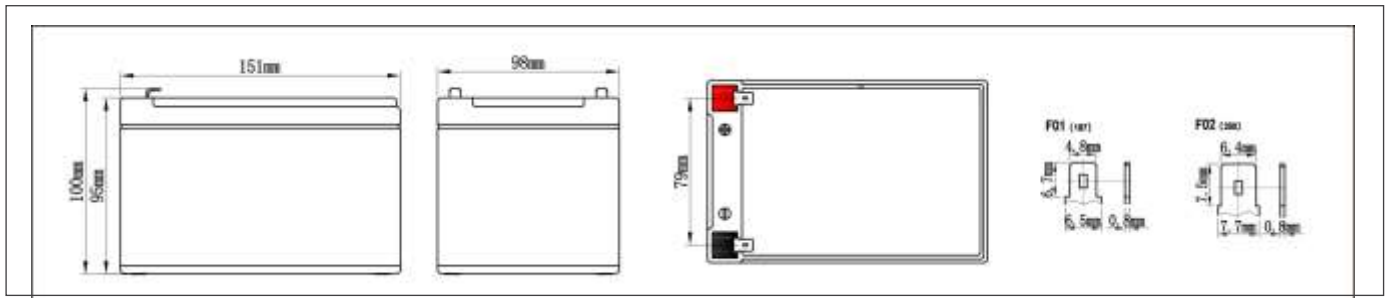
### Application

- DC power supply
- Medical equipments
- UPS/EPS power supply
- Emergency lighting systems
- Alarm and security systems

### Physical Specifications

Nominal Voltage	Nominal Capacity (20HR)	Dimension				Weight ±2%	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)	≈16.5 mΩ	F01/F02 (standard)

### Dimensions



### Constant-Voltage Charge

Rated Capacity	
20 hour rate (0.60A)	12.12AH
10 hour rate (1.20A)	11.40AH
5 hour rate (2.04A)	10.10AH
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 than3.0A.
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 13.6to 13.8 volts with current limit3.0A 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.

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



## Battery Discharge Table

End Voltage (V)	Minute (M)				Hour (H)							
	10	15	30	45	1	1.5	2	3	5	8	10	20
<b>Constant Current Discharge Data Sheet (@25°C) Unit: A</b>												
9.6V	31.9	24.9	12.7	8.98	7.56	6.02	4.48	3.38	2.16	1.44	1.18	0.624
9.9V	30.3	23.7	12.1	8.67	7.38	5.87	4.37	3.30	2.11	1.41	1.17	0.618
10.2V	28.9	22.6	11.5	8.38	7.20	5.73	4.26	3.22	2.06	1.38	1.16	0.612
10.5V	28.6	22.4	11.5	8.30	7.15	5.63	4.10	3.11	2.02	1.37	1.15	0.606
10.8V	28.3	22.2	11.3	8.22	7.10	5.52	3.94	3.00	1.98	1.35	1.14	0.600
<b>Constant Power Discharge Data Sheet (@25°C) Unit: W</b>												
9.6V	385	311	176	124	92.9	71.3	53.6	38.3	25.2	17.6	14.0	7.51
9.9V	366	296	167	120	90.6	69.5	52.3	37.3	24.6	17.2	13.8	7.43
10.2V	349	282	159	116	88.4	67.8	51.0	36.4	24.0	16.9	13.7	7.36
10.5V	337	274	156	114	87.0	66.8	50.3	35.6	23.7	16.8	13.5	7.26
10.8V	325	265	152	111	85.6	65.8	49.6	35.0	23.5	16.6	13.3	7.16

## Performance Characteristics

