





# SAITE POWER SOURCE (VIETNAM) CO.,LTD

## **VRLA AGM Battery**

BT-12M20AC[12V20Ah]



### **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

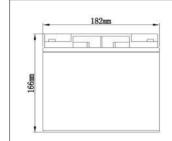
## **Application**

- 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

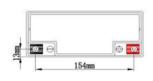
## Figure 2 Physical Specifications

Nominal Voltage	Nominal Capacity		Dime	nsion		Internal	Standard		
	ge	(20HR)	L	W	Н	TH	Weight ±3%	Resistance (In full charge status)	Terminals
12\	/	20AH	182±2mm	77±2mm	166±2mm	166±2mm	Approx 5.85kg (12.24lbs)	≈14 mΩ	T03 (standard)

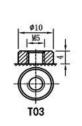
## **X** Dimensions











## Constant-Voltage Charge

Rated Capacity								
20 hrs rate (1.0A at 10.8V)	20. 0AH							
10 hrs rate (1.81A at 10.8V)	18.1AH							
5 hrs rate (3.37A at 10.5V)	16.8 AH							
3 hr rate (5.2A at 10.5V)	15.6 AH							
1 hr rate (12A at 10.2VPC)	12 AH							
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 5.0A.
- 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 0.11A 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 5.0A 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



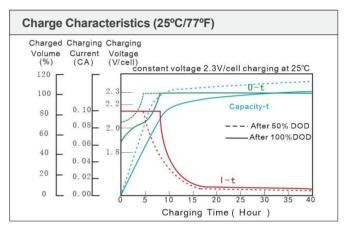


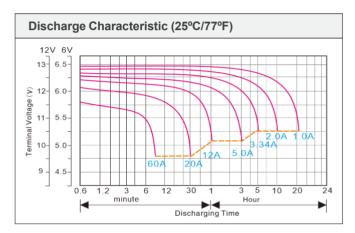


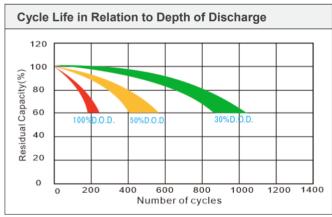
## **Battery Discharge Table**

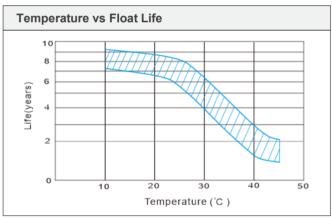
End	Minute (M)					Hour (H)							
Voltage (V)	5	10	15	30	45	1	1.5	2	3	5	8	10	20
Constant Current Discharge Data Sheet (Amperes at 25°C)													
1.70	74.2	48.3	37.8	19.3	14.0	12.0	9.58	7.12	5.38	3.44	2.30	1.85	1.04
1.75	73.5	47.9	37.5	19.2	13.8	11.9	9.40	6.85	5.20	3.37	2.28	1.83	1.02
1.80	72.7	47.4	37.1	18.9	13.6	11.9	9.22	6.58	5.02	3.30	2.25	1.81	1.00
Constant Power Discharge Data Sheet (Watt at 25°C)													
1.70	134	96.6	78.1	44.2	32.2	24.50	18.78	14.1	10.1	6.65	4.68	3.79	2.04
1.75	128.6	93.5	75.8	43.3	31.4	24.12	18.50	13.9	9.86	6.57	4.65	3.73	2.01
1.80	121.7	90.0	73.5	42.0	30.7	23.72	18.20	13.7	9.69	6.50	4.60	3.67	1.98

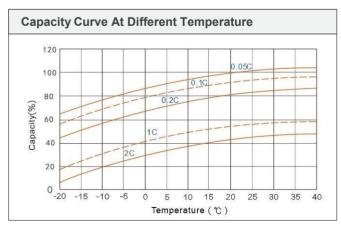
## **Performance Characteristics**

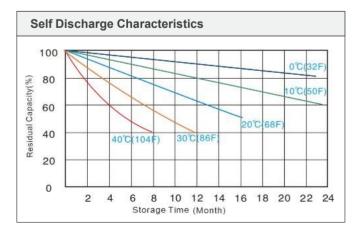














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