



SAITE POWER SOURCE (VIETNAM) CO.,LTD

VRLA AGM Battery

BT-12M2.2AT[12V2.2Ah]



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

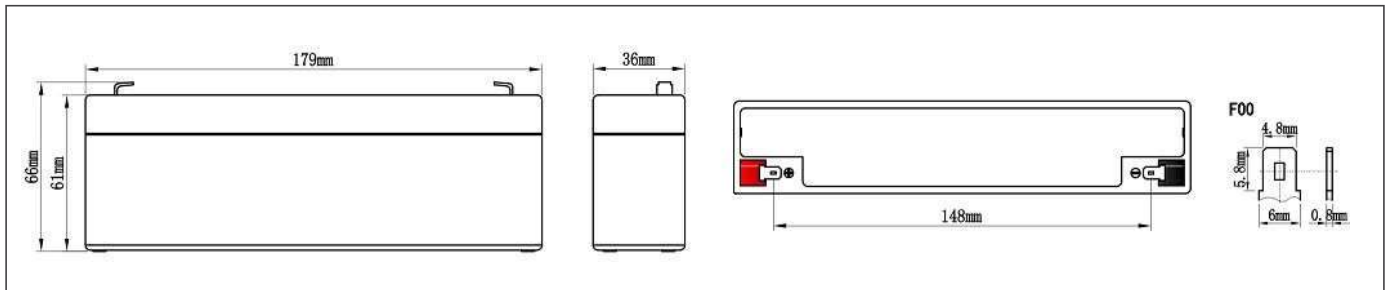
Application

- 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 ±3%	Internal Resistance (In full charge status)	Standard Terminals
		L	W	H	TH			
12V	2.2AH	179±2mm	36±1mm	61±2mm	66±2mm	Approx0.86kg (1.89lbs)	≈70 mΩ	F00 (standard)

Dimensions



Constant-Voltage Charge

Rated Capacity		Cycle Application	
20 hour rate (0.11A)	2.28AH	1. Limit initial current less than 0.55A.	
10 hour rate (0.22A)	2.08AH	2. Charge until battery voltage (under charge) reaches 14.1V to 14.4V at 25°C(77°F).	
5 hour rate (0.374A)	1.84AH	3. Hold at 14.1V to 14.4V until current drop to under 0.0132A for at least 3 hours.	
27 minute rate (2.2A)	1.10AH	4. Temperature compensation coefficient of charging voltage is -30mV/°C.	
7 minute rate (6.6A)	0.80AH		
Capacity affected by Temperature		Standby Service	
40°C(104°F)	103%	1. Hold battery across constant voltage source of 13.6to 13.8 volts with current limit 0.55A continuously .When held at this voltage , the battery will seek its own current level and maintain itself in a fully charge status.	
25°C(77°F)	100%		
0°C(32°F)	86%	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)							
	5	10	15	30	45	1	1.5	2	3	5	8	10	20
Constant Current Discharge Data Sheet (Amperes at 25°C)													
10.20	8.44	5.49	4.30	2.197	1.596	1.368	1.088	0.808	0.612	0.395	0.264	0.211	0.116
10.50	8.31	5.44	4.26	2.176	1.586	1.358	1.067	0.777	0.591	0.386	0.262	0.209	0.115
10.80	8.18	5.39	4.22	2.156	1.565	1.347	1.047	0.746	0.568	0.375	0.259	0.207	0.114
Constant Power Discharge Data Sheet (Watt at 25°C)													
10.20	91.92	66.25	53.63	30.29	22.08	16.80	12.88	9.69	6.92	4.56	3.21	2.60	1.40
10.50	88.07	64.06	52.05	29.67	21.58	16.53	12.70	9.56	6.76	4.52	3.18	2.56	1.38
10.80	83.45	61.67	50.35	28.81	21.03	16.26	12.51	9.42	6.64	4.46	3.15	2.52	1.36

Performance Characteristics

