



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



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VRLA AGM Battery

BT-12M18AC[12V19.5Ah]



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

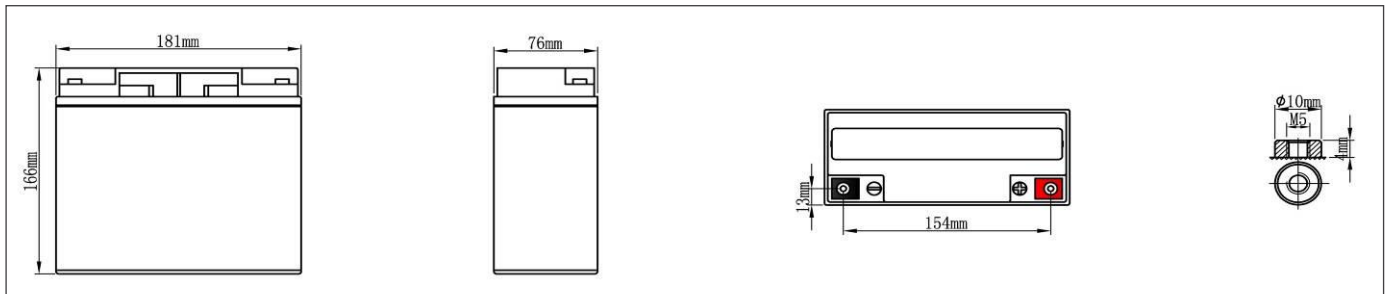
Application

- 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	19.5AH	182±2mm	77±2mm	166±2mm	166±2mm	Approx 5.10kg (11.24lbs)	≈17.6mΩ	T04 (standard)

Dimensions



Constant-Voltage Charge

Rated Capacity	
20 hour rate (0.975A)	19.76AH
10 hour rate (1.95A)	18.90AH
5 hour rate (3.32A)	16.40AH
27 minute rate (19.5A)	8.78AH
7 minute rate (58.5A)	6.83AH
Capacity affected by Temperature	
40°C(104°F)	103%
25°C(77°F)	100%
0°C(32°F)	86%

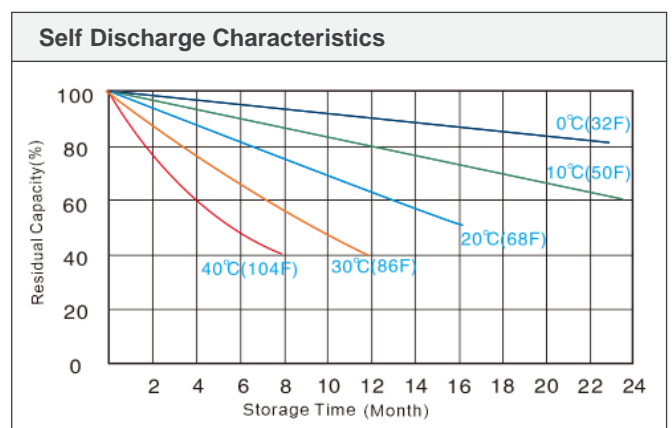
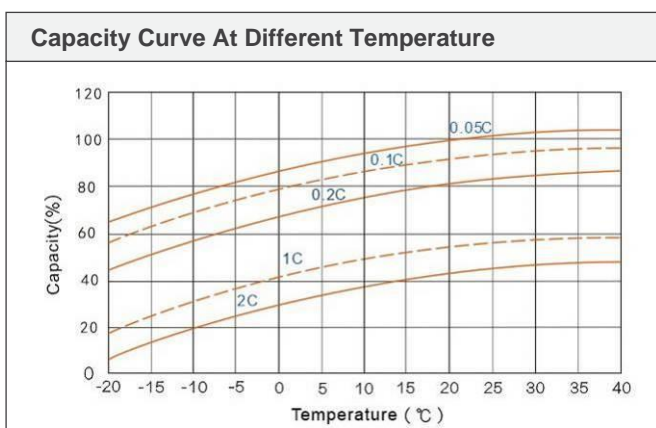
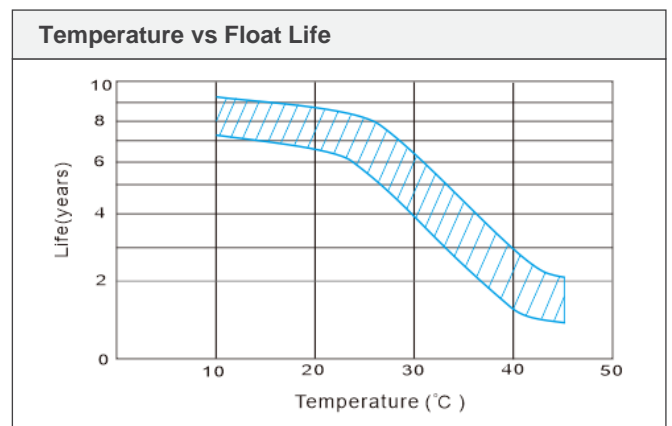
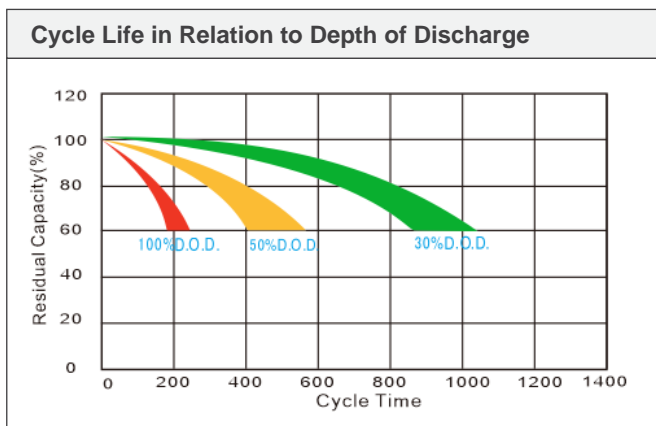
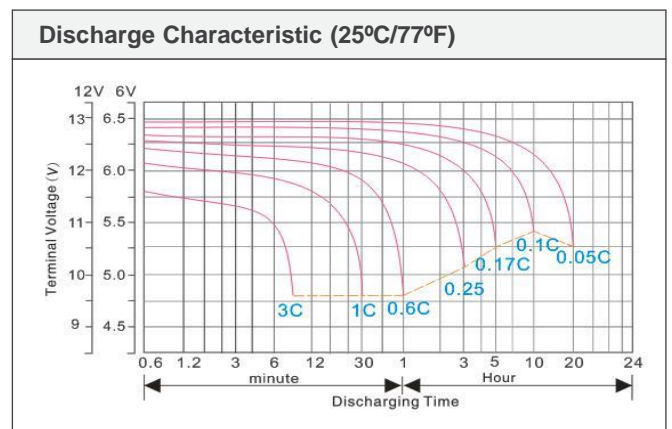
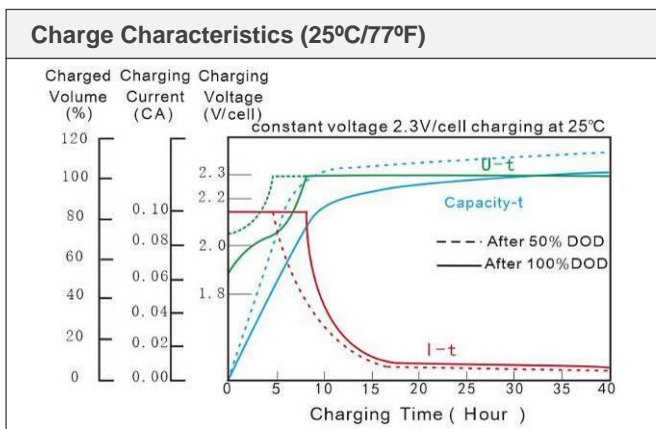
Cycle Application
1. Limit initial current less than 4.875A.
2. Charge until battery voltage (under charge) reaches 14.1V to 14.4V at 25°C(77°F).
3. Hold at 14.1V to 14.4V until current drop to under 0.117A for at least 3 hours.
4. Temperature compensation coefficient of charging voltage is -30mV/°C.
Standby Service
1. Hold battery across constant voltage source of 13.6to 13.8 volts with current limit 4.875A 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
Constant Current Discharge Data Sheet (@25°C) Unit: A												
9.6V	46.0	36.1	18.5	13.4	11.4	9.03	6.95	5.23	3.51	2.33	1.97	1.020
9.9V	43.7	34.3	17.5	13.0	11.2	8.82	6.78	5.10	3.42	2.28	1.95	1.012
10.2V	41.7	32.7	16.8	12.7	10.8	8.60	6.63	4.99	3.34	2.23	1.94	1.001
10.5V	41.2	32.5	16.7	12.5	10.7	8.46	6.37	4.83	3.32	2.21	1.91	0.988
10.8V	41.0	32.0	16.3	12.3	10.6	8.31	6.11	4.66	3.28	2.19	1.89	0.975
Constant Power Discharge Data Sheet (@25°C) Unit: W												
9.6V	444	360	204	143	108	82	62.6	44.3	29.1	20.4	16.1	8.72
9.9V	423	343	193	139	105	81	61.2	43.6	28.5	20.0	16.0	8.58
10.2V	403	326	184	134	102	79	59.1	42.2	27.8	19.5	15.8	8.51
10.5V	389	317	181	132	101	78	58.4	41.5	27.4	19.3	15.5	8.37
10.8V	375	306	175	128	98	76	57.7	40.1	27.1	19.2	15.3	8.30

Performance Characteristics



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☆The datasheet subjects to change without prior notice, please contact with us if have any questions.