



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

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## VRLA AGM Battery

BT-HSE-80-12 [12V80Ah]



### General Features

- Designed floating charging service life: 12 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

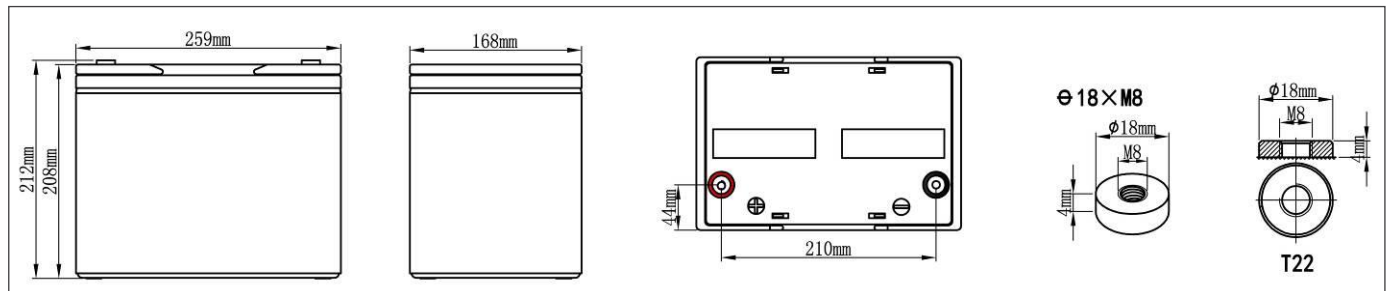
### Application

- DC power supply
- Medical equipments
- UPS/EPS power supply
- Telecom stations and power stations

### Physical Specifications

Nominal Voltage	Nominal Capacity (10HR)	Dimension				Weight ±2%	Internal Resistance (In full charge status)	Standard Terminals
		L	W	H	TH			
12V	80AH	259±3mm	168±2mm	208±3mm	212±3mm	Approx 23.6kg (51.92lbs)	≈5.8mΩ	T22 (standard)

### Dimensions



### Constant-Voltage Charge

Rated Capacity	
20 hour rate (4.0A)	84.8AH
10 hour rate (8.0A)	80.8AH
5 hour rate (13.6A)	68.5AH
3 hour rate (20.0A)	60.6AH
1 hour rate (48.0A)	48.5AH
Capacity affected by Temperature	
40°C(104°F)	103%
25°C(77°F)	100%
0°C(32°F)	86%

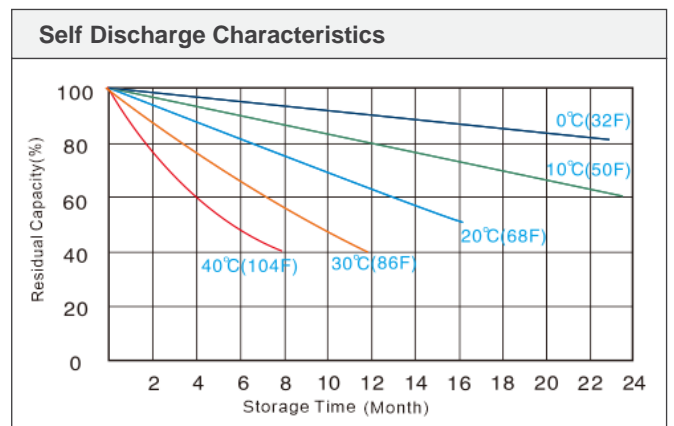
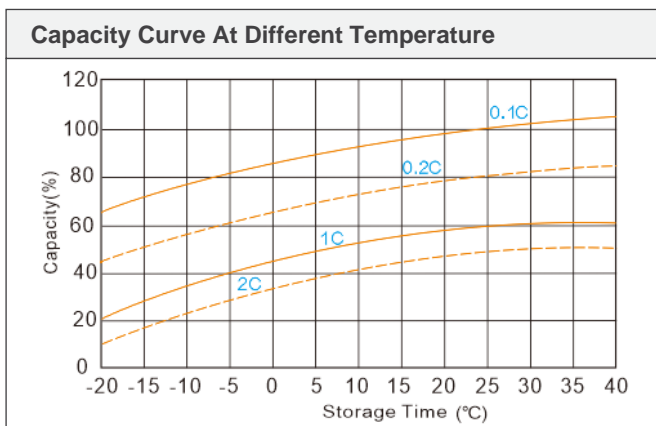
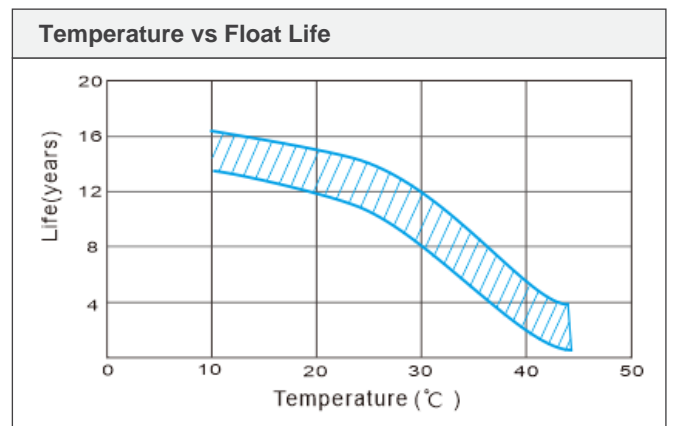
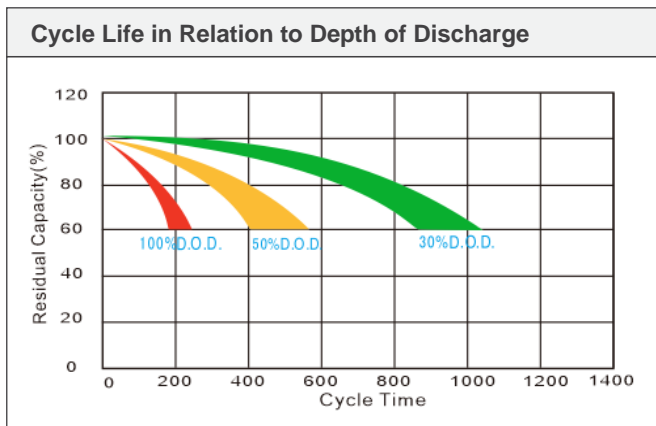
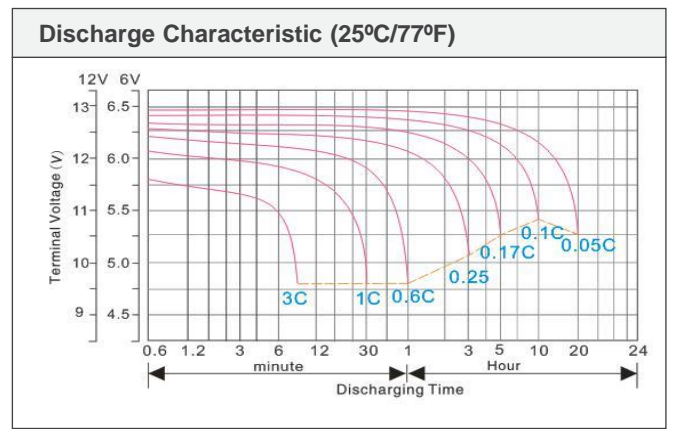
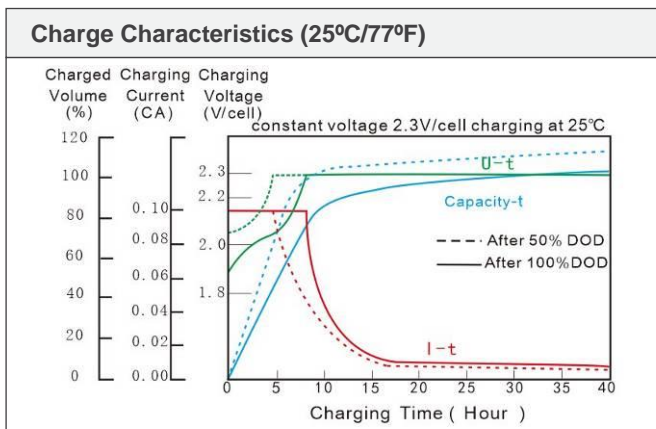
Cycle Application
1. Limit initial current less than 20.0A.
2. Charge until battery voltage (under charge) reaches 14.1V to 14.4V at 25°C(77°F).
3. Hold at 14.1V to 14.4V until current drop to under 0.48A for at least 3 hours.
4. Temperature compensation coefficient of charging voltage is -30mV/°C.
Standby Service
1. Hold battery across constant voltage source of 13.6 to 13.8 volts with current limit 20.0A 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	198	157	86	76	48.5	40.8	34.4	21.0	14.6	10.10	8.45	4.41
9.9V	190	148	83	75	47.8	40.0	33.6	20.7	14.3	10.00	8.37	4.36
10.2V	181	142	78	71	47.1	39.1	32.8	20.2	14.2	9.80	8.33	4.33
10.5V	172	134	75	68	46.2	38.4	32.0	19.9	13.7	9.60	8.23	4.24
10.8V	163	129	74	67	45.8	37.5	31.3	19.4	13.2	9.39	8.08	4.20
<b>Constant Power Discharge Data Sheet (@25°C) Unit: W</b>												
9.6V	2193	1818	1124	788	656	478	357	267	172	130	101	54.3
9.9V	2090	1730	1071	762	640	466	349	259	169	128	100	53.9
10.2V	1988	1648	1020	736	623	454	340	254	163	126	99	53.2
10.5V	1894	1570	971	710	608	444	333	246	160	123	98	52.7
10.8V	1805	1494	926	687	594	433	324	241	156	121	97	52.3

## Performance Characteristics



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