

VRLA AGM Battery

BT-HSE-100-12-F18 [12V100Ah]



General Features

- Designed floating charging service life: 12 years (20°C).
- Sealed and maintenance free operation.
- Safety valve installation for explosion proof.
- Low self-discharge characteristic, approx. 2% of capacity per month at 20°C (average).
- Wide operating temperature range from 0°C~40°C.
- Lead Aluminum calcium Tin alloy high energy, prevent corrosion.
- ABS flame retardant case, classified to UL94-V0 is available on request.

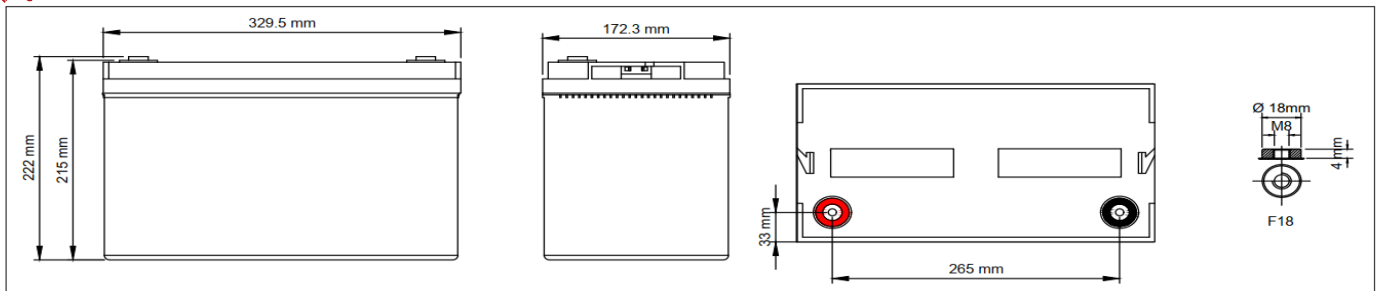
Applications

- DC power supply.
- UPS/ EPS power supply.
- Electrical devices & instruments.
- Security and fire alarm systems.
- Telecom stations and power stations.
- Medical equipment.
- Emergency lighting systems.

Physical Specifications

Nominal Voltage	Nominal Capacity (10HR)	Dimension (±3mm)				Weight ±3%	Internal Resistance (In full charge status)	Standard Terminals
		L	W	H	TH			
12V	100Ah	329.5 mm	172.3 mm	215 mm	222 mm	Approx. 30kg (66.2 lbs)	Approx. 4.0 mΩ	F18 (standard)

Dimensions



Constant-Voltage Charge

Rated Capacity	
20 hours rate (5.2A to 10.8V)	104Ah
10 hour rate (10.0A to 10.8V)	100Ah
5 hour rate (17.0A to 10.5V)	85.0Ah
3 hour rate (24.80A to 10.5V)	74.4Ah
1 hour rate (62.0A to 10.2V)	62.0Ah
Self-discharge & remain capacity at 20°C	
1 month	98%
3 months	94%
6 months	85%

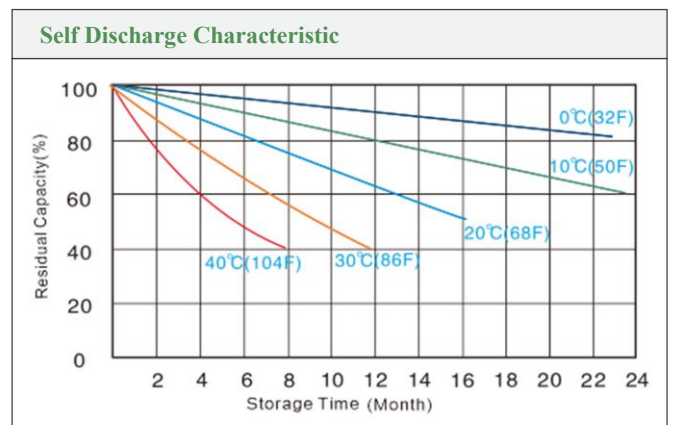
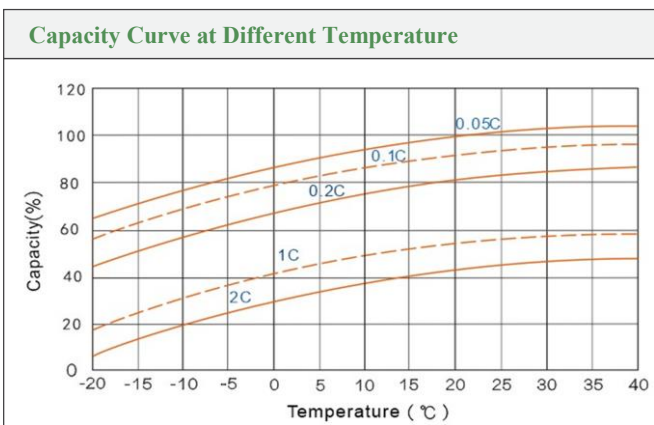
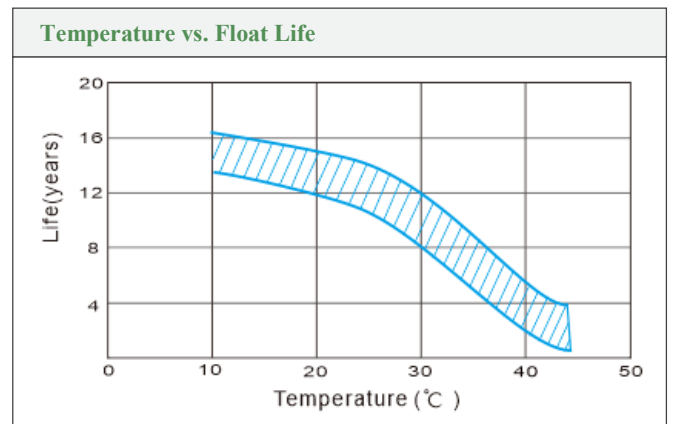
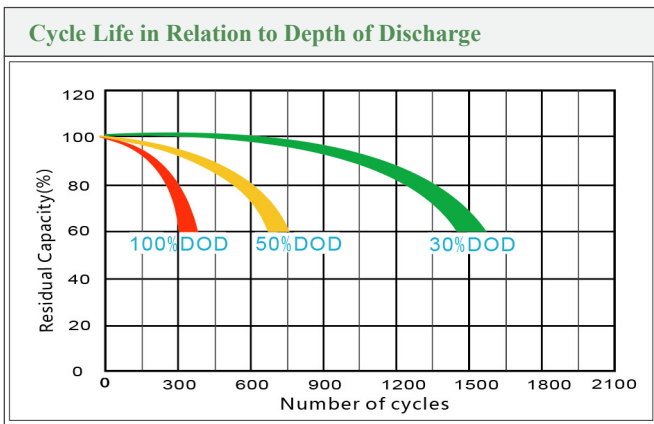
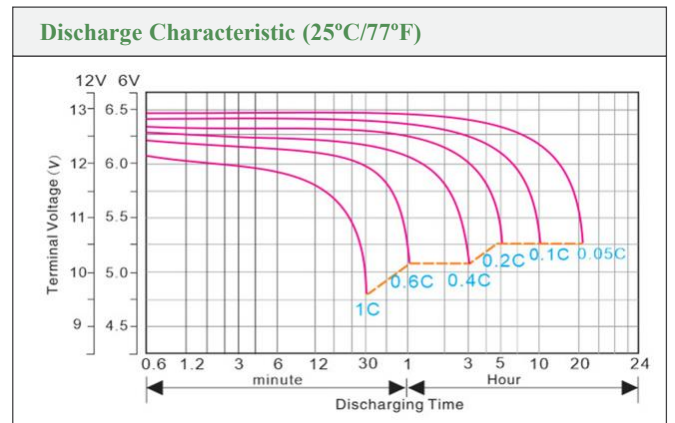
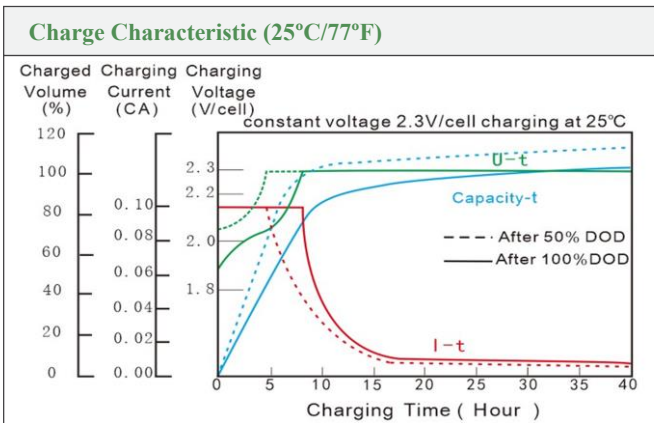
Cycle Application
1. Limit initial current less than 30.0A.
2. Charge until battery voltage (under charge) reaches 14.4V to 15V at 25°C(77°F)
3. Hold at 14.4V to 15V until current drop to under 0.48A for at least 3 hours
4. Temperature compensation coefficient of charging voltage is -30mV/°C
Standby Service
1. Hold battery across constant voltage source of 13.5 to 13.8 volts with current limit 30.0A 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
3. Max discharge current (5s): 1200A.

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 Volts/Cell	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												
1.70V	221	174	98	87	62	48	40.2	25.4	17.4	12.0	10.20	5.30
1.75V	210	166	93	84	60	47	39.3	24.8	17.0	11.7	10.10	5.25
1.80V	200	158	89	81	58	46	38.3	24.2	16.4	11.5	10.00	5.20
Constant Power Discharge Data Sheet (@25°C) Unit: W												
1.70V	410	340	210	152	129	93.8	70.2	52.3	33.8	25.8	20.4	11.0
1.75V	391	324	200	147	126	91.5	68.5	51.0	33.0	25.3	20.2	10.9
1.80V	372	308	191	142	123	89.3	66.8	49.8	32.2	24.8	20.0	10.8

Performance Characteristics



FACTORY ADDRESS:
 Road No.6, An Phuoc IP, An Phuoc Ward, Long Thanh District,
 Dong Nai Province, Vietnam

☎ 0084-978366669
 ☎ 0084-2513686918

✉ sales@saite.vn
 🌐 www.saite.vn