

## VRLA AGM Battery

BT-HSE-120-12 [12V120Ah]



### 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

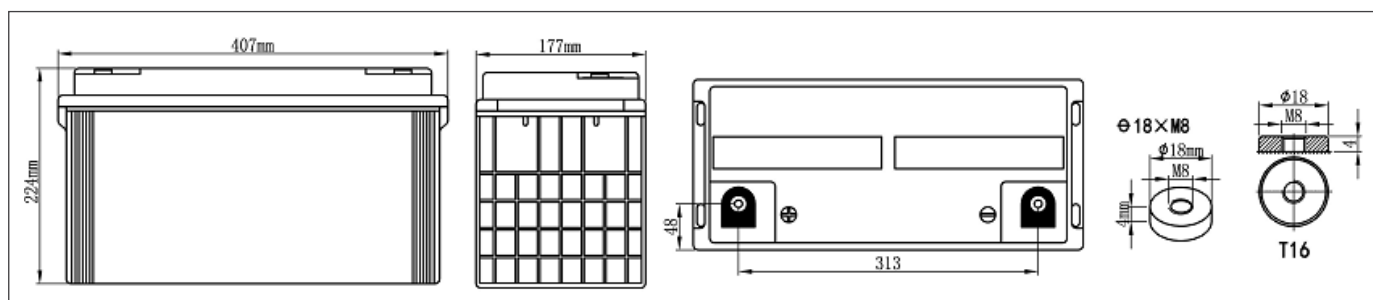
### Application

- DC power supply
- 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				Weight ±3 %	Internal Resistance (In full charge status)	Standard Terminals
		L	W	H	TH			
12V	120AH	407±3mm	177±2mm	224±3mm	224±3mm	Approx 34.5kg (76.06lbs)	≤4.5mΩ	T16 (standard)

### Dimensions



### Constant-Voltage Charge

Rated Capacity	
20 hour rate (6.5A/1.80V)	130.0AH
10 hour rate (12.0A/1.80V)	120.0AH
5 hour rate (21.3A/1.75V)	110.5AH
3 hour rate (31.25A/1.75V)	93.8AH
1 hour rate (75.0A/1.70V)	75.0AH
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 32.5A.
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 0.78A 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 32.5A 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)							
	5	10	15	30	45	1	1.5	2	3	5	8	10	20
<b>Constant Current Discharge Data Sheet (Amperes at 25°C)</b>													
10.20	354.1	286.5	225.7	119.6	111.3	75.00	61.57	51.58	32.34	22.45	15.97	13.00	6.90
10.50	336.4	261.6	211.1	114.4	106.1	72.88	59.18	49.71	31.25	21.30	15.10	12.60	6.70
10.80	311.5	236.6	197.6	111.3	101.1	70.26	56.78	47.74	30.16	20.51	14.35	12.00	6.50
<b>Constant Power Discharge Data Sheet (Watt at 25°C)</b>													
10.20	3587	3142	2364	1496	1123	976	711	536	399	258	191	162	85.0
10.50	3445	2668	2188	1461	1098	961	701	518	387	250	188	157	82.4
10.80	3196	2416	2059	1429	1061	917	669	500	373	241	186	150	80.5

## Performance Characteristics

