





VRLA AGM Battery

Minute3ank

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

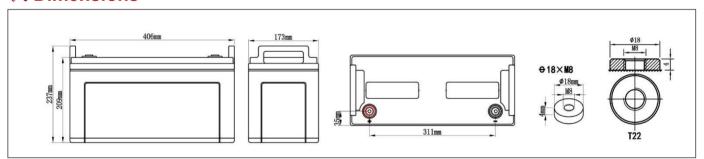
Application

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

Fig. Physical Specifications

Nominal	Nominal		Dime	nsion		Internal	Standard		
Voltage	Capacity (20HR)	L	W	Н	TH	Weight ±3%	Resistance (In full charge status)	Terminals	
12V	120AH	406±3mm	173±2mm	209±3mm	237±3mm	Approx 35.4kg (67.2lbs)	≈4.53 mΩ	T22 (standard)	

X Dimensions



Battery Discharge Table

End Voltage	Minute (M)					Hour (H)										
(v) Š	5	10	15	20	30	45	1	1.5	2	3	4	5	6	8	10	20
Constant Current Discharge Data Sheet (Amperes at 25°C)																
10.20	378	288	217	190	115	107	75.0	59.2	49.6	31.1	27.1	21.59	19.40	15.36	12.72	6.78
10.50	336	264	203	182	110	102	72.0	56.9	47.8	30.1	26.5	20.62	18.45	14.52	12.48	6.66
10.80	312	240	190	178	107	97.2	69.0	54.6	45.9	29.0	25.8	19.72	17.60	13.80	12.12	6.46
	Constant Power Discharge Data Sheet (Watt at 25°C)															
10.20	3756	3180	2289	2040	1438	1080	938	684	515	384	314	248	227	184	156	81.7
10.50	3612	2700	2054	1992	1405	1056	924	674	498	372	305	240	221	181	151	79.2
10.80	3360	2520	1961	1962	1374	1020	882	643	481	359	294	232	215	179	144	77.4

A NOTE: The battery should be charged within 6 months of storage, Otherwise, permanent loss of capacity might occur as a result of sulfation







Constant-Voltage Charge

Rated Capacity								
20 hour rate (6.0A)	126.0AH							
10 hour rate (12.0A)	120.5AH							
5 hour rate (20.4A)	102.0AH							
3 hour rate (30.0A)	90.0AH							
1 hour rate (66.0A)	72.0AH							
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 30.0A.
- 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 0.72A 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 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.

Performance Characteristics

