

# MinuteBank

## VRLA AGM Battery

BT-HSE-230-12 [12V230Ah]



### 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

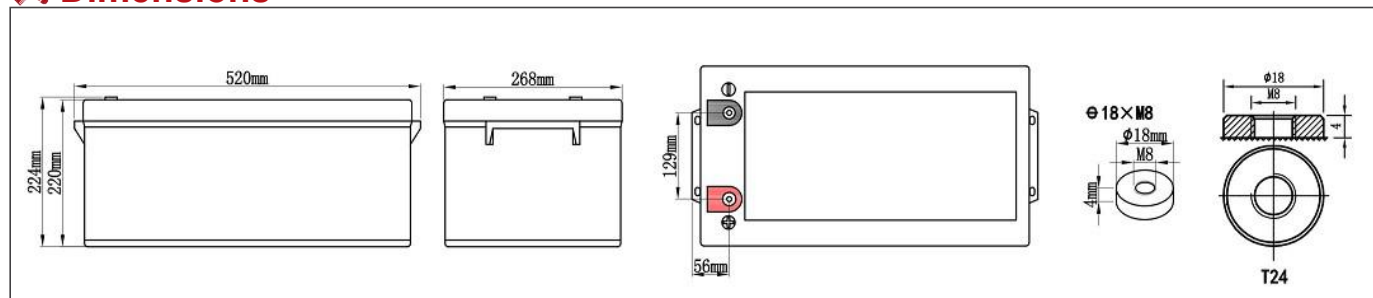
### Application

- 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

### Physical Specifications

Nominal Voltage	Nominal Capacity (10HR)	Dimension				Weight ±3%	Internal Resistance (In full charge status)	Standard Terminals
		L	W	H	TH			
12V	230AH	520±3mm	268±2mm	220±3mm	224±3mm	Approx 68.0kg (149.91lbs)	≈2.7 mΩ	T24 (standard)

### Dimensions



### Battery Discharge Table

End Voltage (V)	Minute (M)						Hour (H)									
	5	10	15	20	30	45	1	1.5	2	3	4	5	6	8	10	20
<b>Constant Current Discharge Data Sheet (Amperes at 25°C)</b>																
10.20	725	552	416	363	221	205	144	114	95.1	59.6	52.0	41.4	37.2	29.44	24.04	12.31
10.50	644	506	389	349	212	196	138	109	91.6	57.7	50.8	39.5	35.2	27.83	23.69	12.19
10.80	598	460	364	340	205	186	132	105	88.0	55.6	49.5	37.8	33.73	26.45	23.23	12.03
<b>Constant Power Discharge Data Sheet (Watt at 25°C)</b>																
10.20	7199	6095	4387	3913	2756	2070	1799	1312	987	736	603	475	434	352	299	157
10.50	6923	5175	3938	3819	2692	2024	1771	1292	955	712	584	460	423	347	290	152
10.80	6440	4830	3760	3763	2634	1955	1691	1233	922	688	562	444	413	343	276	148

**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 (11.50A)	245.00AH
10 hour rate (23.00A)	235.00AH
5 hour rate (39.10A)	195.50AH
3 hour rate (57.50A)	173.00AH
1 hour rate (126.50A)	128.00AH
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 57.50A.
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 1.38A 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 57.50A 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

