

MinuteBank

VRLA AGM Battery

BT-HSE-250-12 [12V250Ah]



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

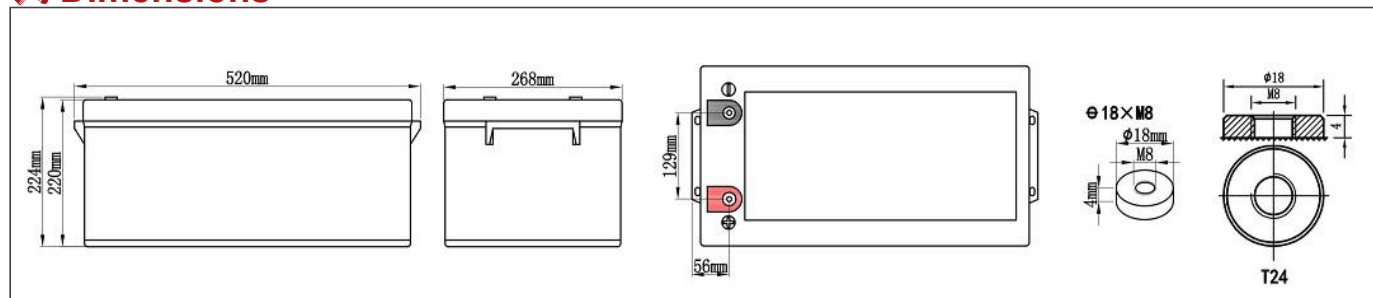
Application

- 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	250AH	520±3mm	268±2mm	220±3mm	218±3mm	Approx 71.0kg (156.53lbs)	≈2.5 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
Constant Current Discharge Data Sheet (Amperes at 25°C)																
10.20	788	600	452	395	240	223	156	123	103.4	64.7	56.5	45.0	40.4	32.0	26.13	13.38
10.50	700	550	423	380	230	213	150	119	99.6	62.7	55.3	42.9	38.4	30.3	25.75	13.25
10.80	650	500	395	370	222	203	144	114	95.7	60.5	53.8	41.1	36.7	28.8	25.25	13.08
Constant Power Discharge Data Sheet (Watt at 25°C)																
10.20	7825	6625	4768	4250	2995	2250	1955	1426	1073	800	655	516	472	383	325	170
10.50	7525	5625	4280	4150	2926	2200	1925	1404	1038	774	635	500	460	378	315	165
10.80	7000	5250	4086	4088	2863	2125	1838	1340	1003	748	613	482	448	373	300	161

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 (12.5A)	265.0AH
10 hour rate (25.0A)	250.0AH
5 hour rate (42.5A)	213.0AH
3 hour rate (62.5A)	189.0AH
1 hour rate (150.0A)	140.0AH
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 62.5A.
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 1.50A 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 62.5A 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.

Performance Characteristics

