MinuteBank

VRLA AGM Battery

BT-HSE-200-12 [12V200Ah]

General Features

- Designed floating charging service life: 12 years (25ºC)
- Sealed and maintenance free operation
- Safety valve installation for explosion proof
- Low self-discharge characteristic
- Wide operating temperature range from 0ºC~40ºC
- Lead Aluminum calcium Tin alloy high energy, prevent corrosion

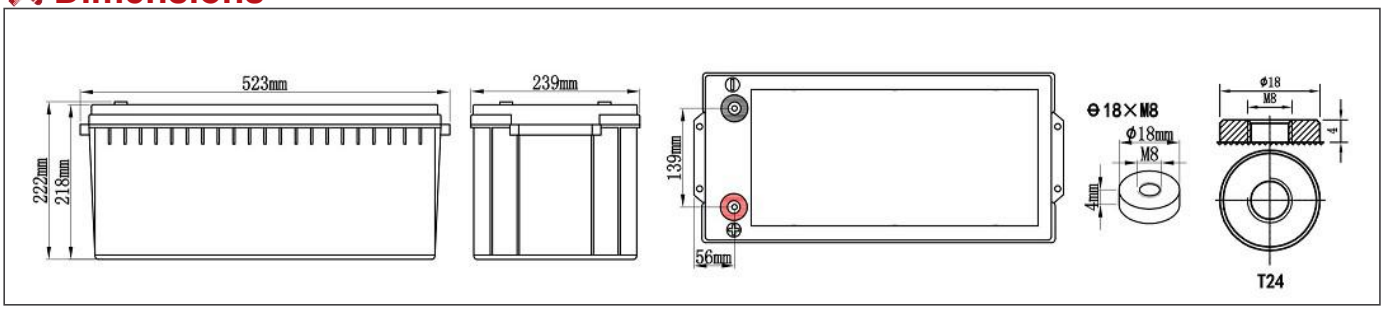
Application

- 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	200AH	523±3mm	239±2mm	215±3mm	222±3mm	Approx 59.5kg (131.17lbs)	≈2.85 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	630	480	362	316	192	178	125	98.6	82.6	51.8	45.2	36.0	32.3	25.58	20.90	10.70
10.50	560	440	338	304	184	170	120	94.8	79.6	50.1	44.2	34.3	30.7	24.18	20.60	10.60
10.80	520	400	316	296	178	162	115	90.9	76.5	48.3	43.0	32.8	29.3	22.98	20.20	10.46
Constant Power Discharge Data Sheet (Watt at 25°C)																
10.20	6260	5300	3815	3400	2396	1800	1564	1141	858	640	524	413	377	306	260	136
10.50	6020	4500	3424	3320	2341	1760	1540	1123	830	619	508	400	368	302	252	132
10.80	5600	4200	3268	3270	2290	1700	1470	1072	802	598	490	386	359	298	240	129

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

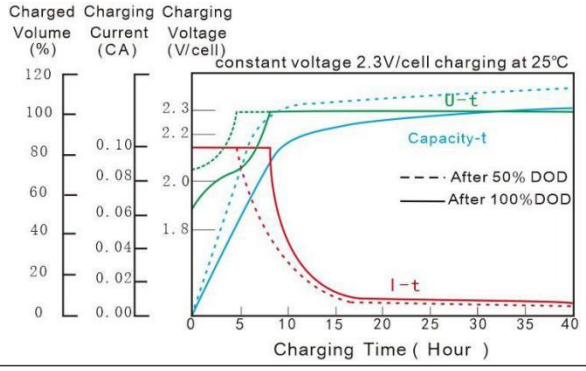
Constant-Voltage Charge

Rated Capacity	
20 hour rate (10.0A)	212.0AH
10 hour rate (20.0A)	201.0AH
5 hour rate (34.0A)	170.0AH
3 hour rate (50.0A)	152.0AH
1 hour rate (120.0A)	120.0AH
Capacity affected by Temperature	
40ºC(104ºF)	103%
25ºC(77ºF)	100%
0ºC(32ºF)	86%

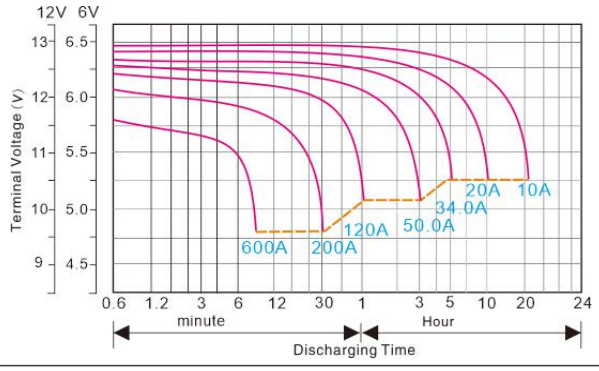
Cycle Application
1. Limit initial current less than50.0A.
2. Charge until battery voltage (under charge) reaches 14.1V to 14.4V at 25ºC(77ºF).
3. Hold at 14.1V to 14.4V until current drop to under1.2A for at least 3 hours.
4. Temperature compensation coefficient of charging voltage is -30mV/ºC.
Standby Service
1. Hold battery across constant voltage source of 13.6 to 13.8 volts with current limit*50.0*A 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/ºC.

Performance Characteristics

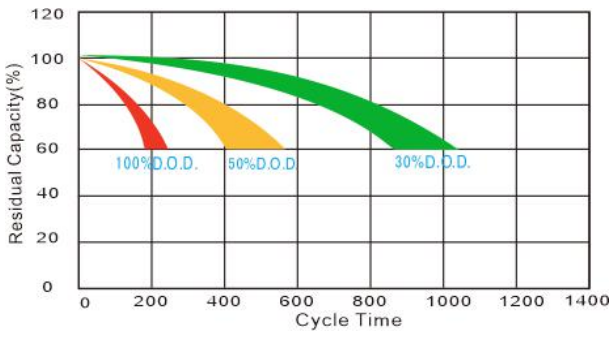
Charge Characteristics (25ºC/77ºF)



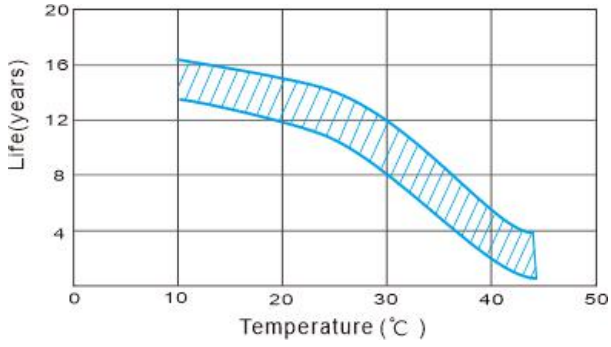
Discharge Characteristic (25ºC/77ºF)



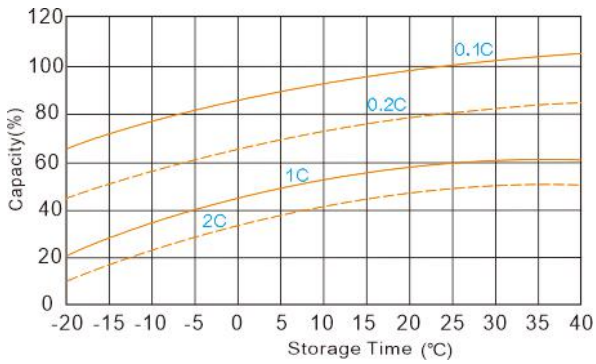
Cycle Life in Relation to Depth of Discharge



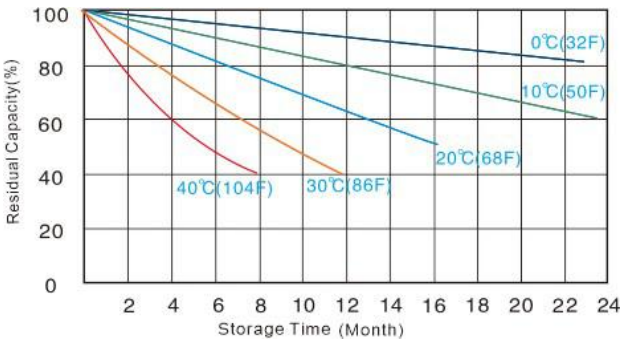
Temperature vs Float Life



Capacity Curve At Different Temperature



Self Discharge Characteristics



MinuteBank