

VRLA AGM Battery

BT-HSE-200-12 [12V200Ah]



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, approx 3% of capacity per month at 20°C (average)
- Wide operating temperature range from 0°C~40°C
- Lead-Aluminum-Calcium-Tin alloy high energy, prevent corrosion

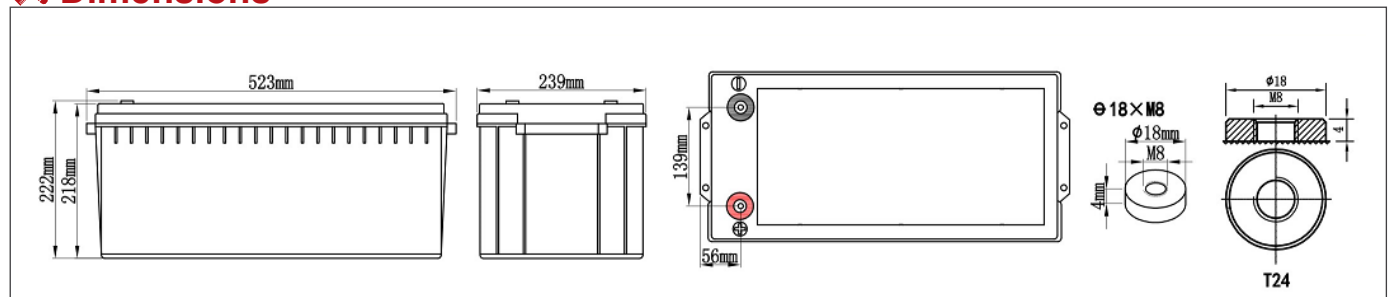
Application

- 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 $\pm 3\%$	Internal Resistance (In full charge status)	Standard Terminals
		L	W	H	TH			
12V	200AH	523 $\pm$ 3mm	239 $\pm$ 2mm	215 $\pm$ 3mm	222 $\pm$ 3mm	Approx 61kg (135lbs)	$\leq 3.2 \text{ m}\Omega$	T24 (standard)

Dimensions



Constant-Voltage Charge

Rated Capacity	
20 hours rate (10.0A)	212.0AH
10 hours rate (20.0A)	201.0AH
5 hours rate (34.0A)	170.0AH
3 hours rate (50.0A)	152.0AH
1 hour rate (120.0A)	120.0AH
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 50.0A.	
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 1.2A 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 50.0A 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.	

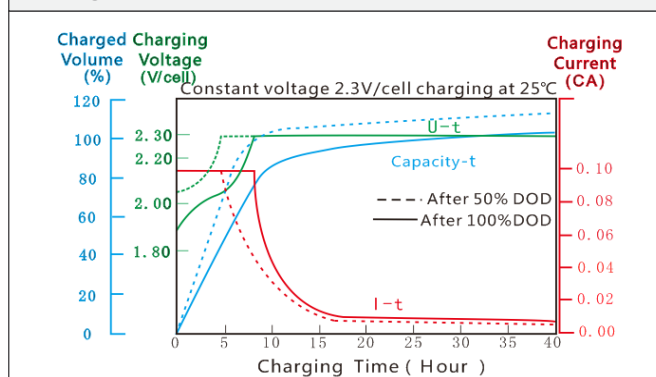
NOTE : The battery should be charged within 6 months of storage, Otherwise, permanent loss of capacity might occur as a result of sulfation

Battery Discharge Table

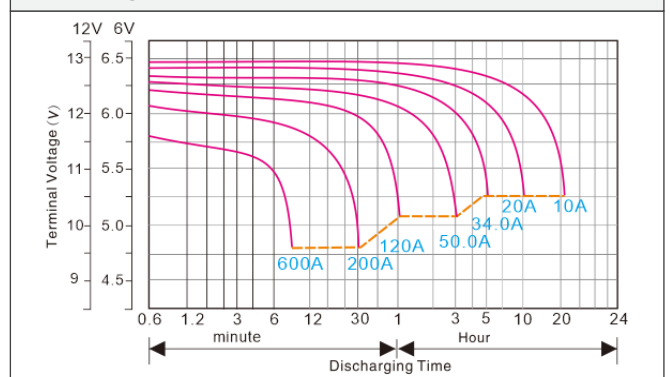
End Voltage	Minute (M)				Hour (H)							
	10	15	30	45	1	1.5	2	3	5	8	10	20
Constant Current Discharge Data Sheet (@25°C) Unit: A												
9.6V	486	384	216	186	127	100	84.4	53.3	36.2	24.9	21.00	10.88
9.9V	463	366	206	180	124	98	82.4	52.0	35.3	24.4	20.79	10.78
10.2V	441	348	196	174	121	96	80.4	50.7	34.5	23.9	20.59	10.67
10.5V	420	332	187	168	118	93	78.4	49.5	33.6	23.4	20.38	10.56
10.8V	400	316	178	162	115	91	76.5	48.3	32.8	23.0	20.18	10.46
Constant Power Discharge Data Sheet (@25°C) Unit: W												
9.6V	4807	4193	2784	1951	1623	1183	885	660	426	322.6	249.7	134.2
9.9V	4578	3994	2651	1885	1583	1154	864	644	416	316.2	247.3	132.9
10.2V	4360	3804	2525	1821	1544	1126	843	628	406	310.0	244.8	131.6
10.5V	4153	3623	2405	1760	1507	1099	822	613	396	304.0	242.4	130.3
10.8V	3955	3450	2290	1700	1470	1072	802	598	386	298.0	240.0	129.0

Performance Characteristics

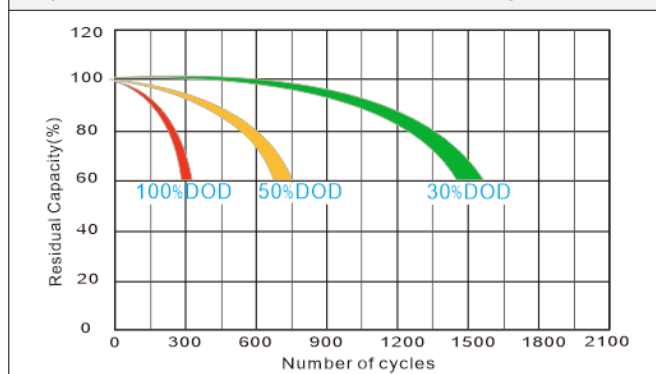
Charge Characteristics (25°C/77°F)



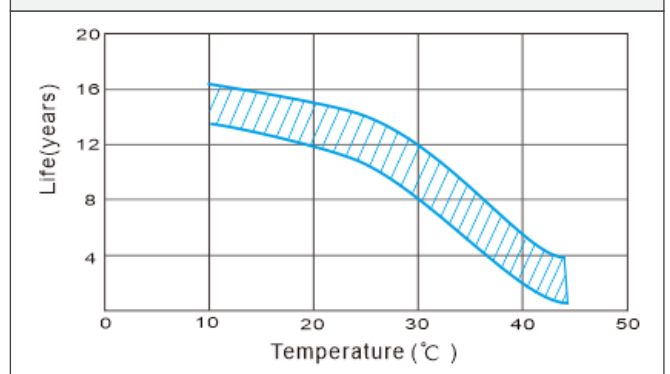
Discharge Characteristic (25°C/77°F)



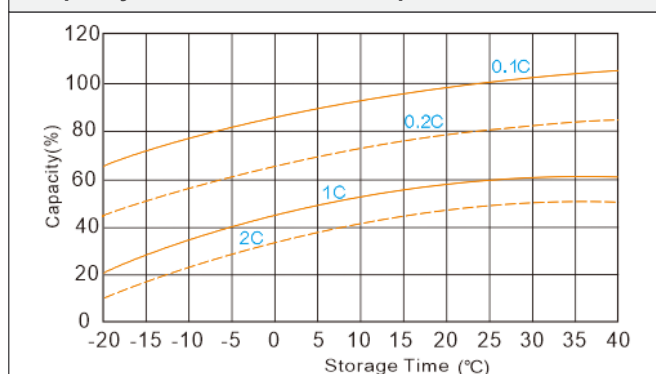
Cycle Life in Relation to Depth of Discharge



Temperature vs Float Life



Capacity Curve at Different Temperature



Self Discharge Characteristics

