

VRLA AGM Battery

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, 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

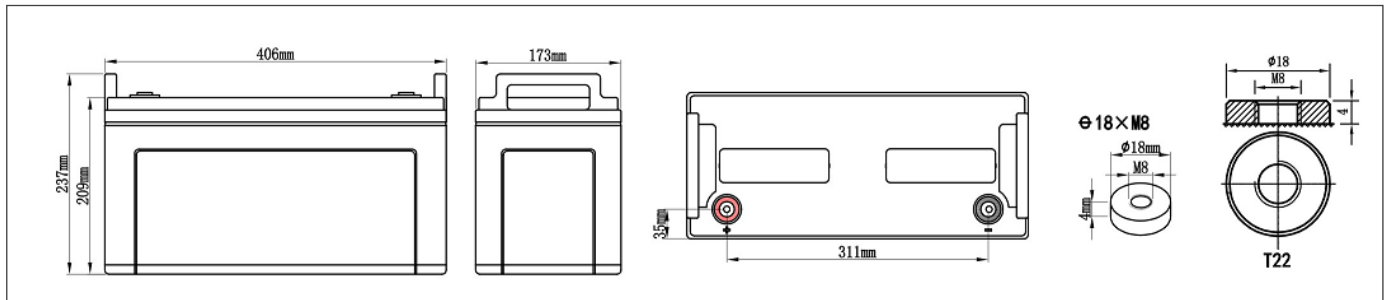
Application

- 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 ±3%	Internal Resistance (In full charge status)	Standard Terminals
		L	W	H	TH			
12V	120AH	406±3mm	173±2mm	209±3mm	237±3mm	Approx 35.40kg (78.04lbs)	≈ 3.50mΩ	T22 (standard)

Dimensions



Constant-Voltage Charge

Rated Capacity	
20 hours rate (6.0A)	126.0AH
10 hours rate (12.0A)	120.5AH
5 hours rate (20.4A)	102.0AH
3 hours rate (30.0A)	90.0AH
1 hour rate (72.0A)	72.0AH
Capacity affected by Temperature	
40°C (104°F)	103%
25°C (77°F)	100%
0°C (32°F)	86%

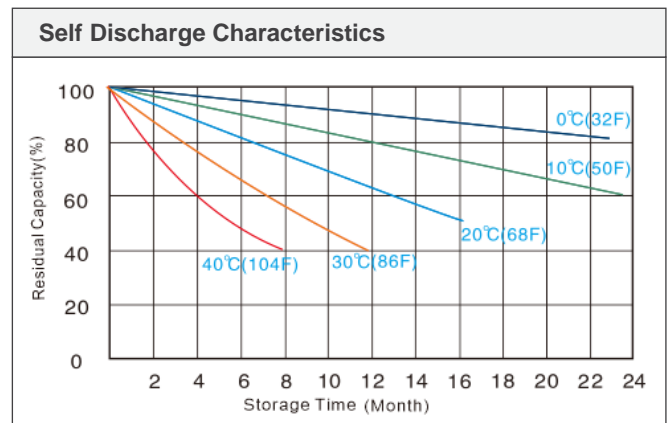
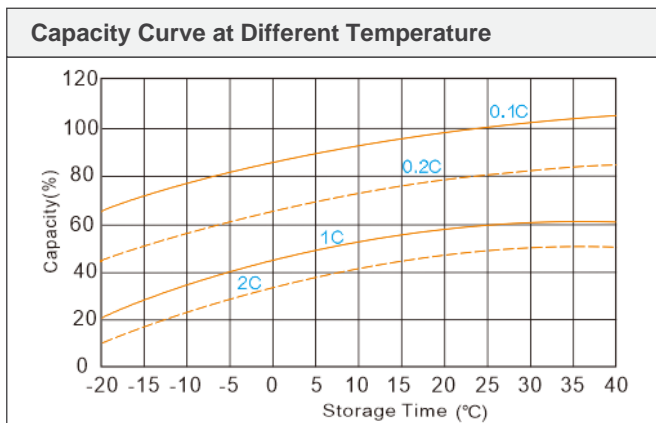
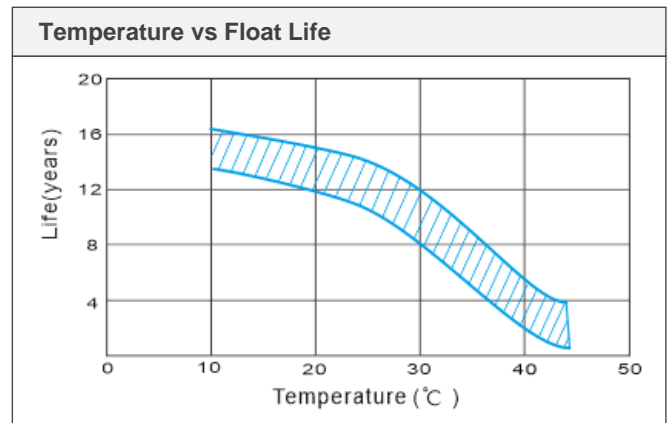
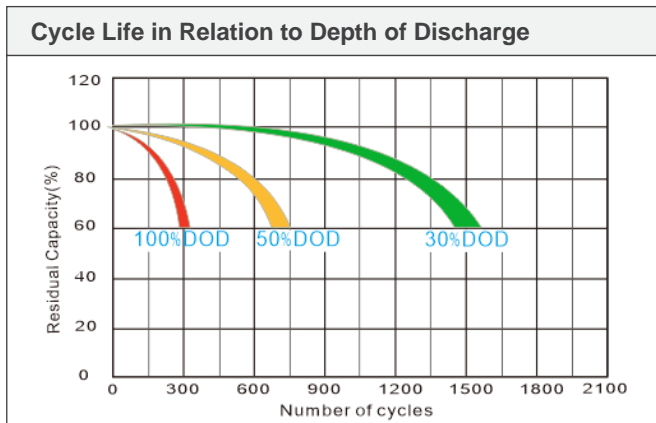
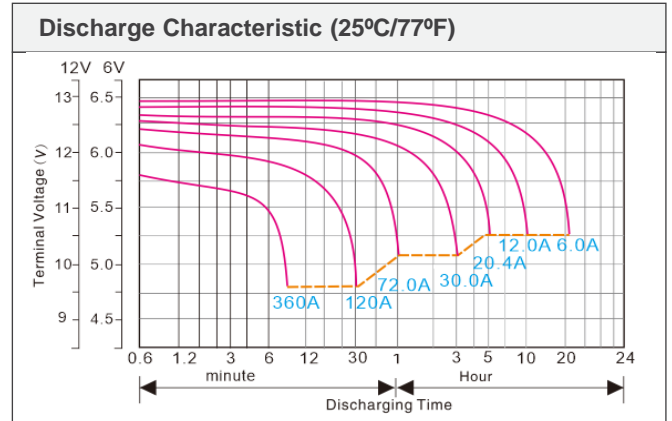
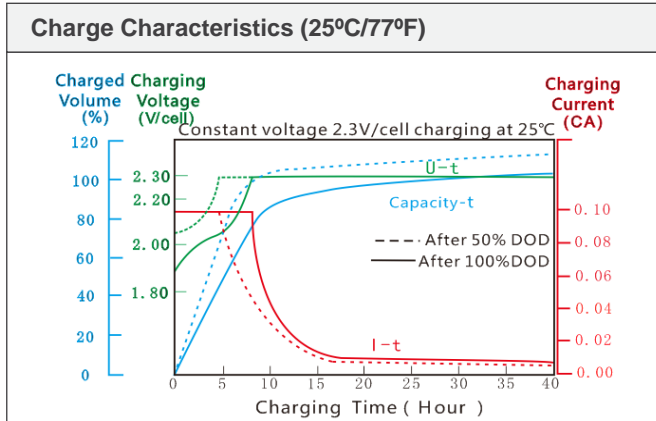
Cycle Application	
1.	Limit initial current less than 30A.
2.	Charge until battery voltage (under charge) reaches 14.1V to 14.4V at 25°C(77°F).
3.	Hold at 14.1V to 14.4V until current drop to under 0.72A for at least 3 hours.
4.	Temperature compensation coefficient of charging voltage is -30mV/°C.
Standby Service	
1.	Hold battery across constant voltage source of 13.6 to 13.8 volts with current limit 30A 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	292	231	130	112	76	60	50.7	32.0	21.8	14.9	12.51	6.50
9.9V	278	220	124	108	74	59	49.4	31.2	21.2	14.6	12.38	6.44
10.2V	265	209	118	104	72	57	48.2	30.5	20.7	14.4	12.26	6.38
10.5V	252	200	112	101	71	56	47.0	29.7	20.2	14.1	12.14	6.31
10.8V	240	190	107	97	69	55	45.9	29.0	19.7	13.8	12.02	6.25
Constant Power Discharge Data Sheet (@25°C) Unit: W												
9.6V	3120	2587	1670	1170	974	710	531	396	256	193.8	149.8	80.5
9.9V	2972	2463	1591	1131	950	692	518	387	250	190.0	148.4	79.7
10.2V	2830	2346	1515	1093	927	676	505	377	244	186.2	146.9	79.0
10.5V	2695	2234	1443	1056	904	659	493	368	238	182.6	145.4	78.2
10.8V	2567	2128	1374	1020	882	643	481	359	232	179.0	144.0	77.4

Performance Characteristics



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