

## VRLA AGM Battery

BT-12M7.2AC[12V7.2Ah]



### General Features

- Designed floating charging service life: 8 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

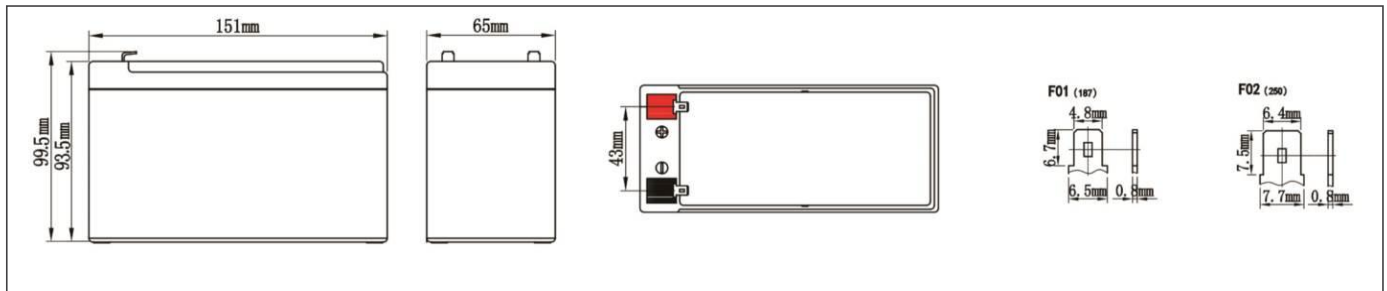
### Application

- DC power supply
- Medical equipments
- UPS/EPS power supply
- Emergency lighting systems
- Alarm and security systems

### Physical Specifications

Nominal Voltage	Nominal Capacity (20HR)	Dimension				Weight ±2%	Internal Resistance (In full charge status)	Standard Terminals
		L	W	H	TH			
12V	7.2AH	151±2mm	65±2mm	93.5±2mm	99.5±2mm	Approx2.10kg (4.63lbs)	≈23.1mΩ	F01/F02 (standard)

### Dimensions



### Battery Discharge Table

End Voltage (V)	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	21.1	16.5	8.40	5.92	4.96	3.96	2.95	2.23	1.426	0.950	0.764	0.409
9.9V	20.1	15.7	8.00	5.72	4.85	3.86	2.87	2.17	1.393	0.932	0.757	0.406
10.2V	19.1	14.9	7.62	5.53	4.72	3.77	2.81	2.12	1.359	0.914	0.749	0.401
10.5V	18.8	14.8	7.55	5.47	4.69	3.70	2.71	2.05	1.326	0.903	0.742	0.397
10.8V	18.6	14.6	7.48	5.42	4.66	3.63	2.60	1.98	1.304	0.891	0.734	0.391
Constant Power Discharge Data Sheet (@25°C) Unit: W												
9.6V	250	203	115	80.9	60.4	46.4	34.9	24.8	16.4	11.5	9.07	4.89
9.9V	238	193	109	78.2	58.9	45.1	34.0	24.3	16.0	11.3	8.98	4.84
10.2V	226	184	104	75.5	57.5	44.1	33.2	23.6	15.6	11.0	8.89	4.79
10.5V	220	178	102	73.8	56.6	43.5	32.6	23.2	15.4	10.9	8.76	4.72
10.8V	211	173	99	72.0	55.6	42.8	32.2	22.7	15.3	10.8	8.61	4.66

**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 (0.39A)	7.94AH
10 hour rate (0.78A)	7.34AH
5 hour rate (1.326A)	6.63AH
27 minute rate (7.8A)	3.51AH
7 minute rate (23.4A)	2.73AH

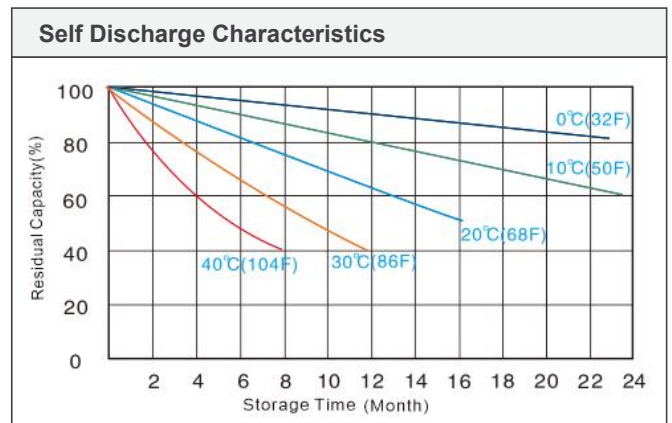
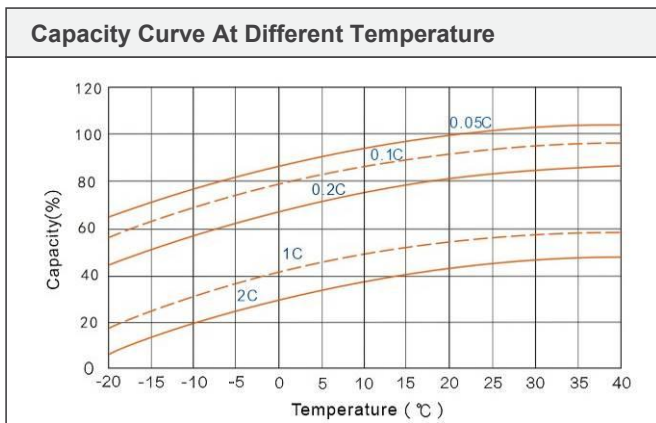
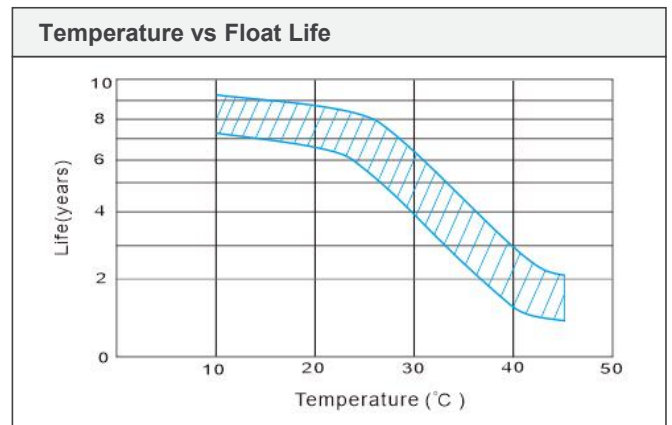
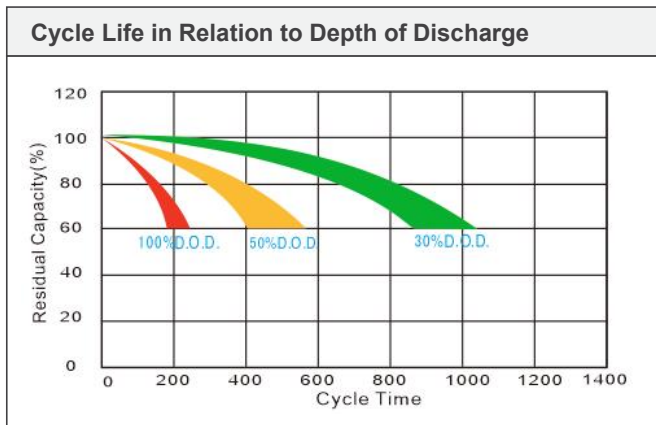
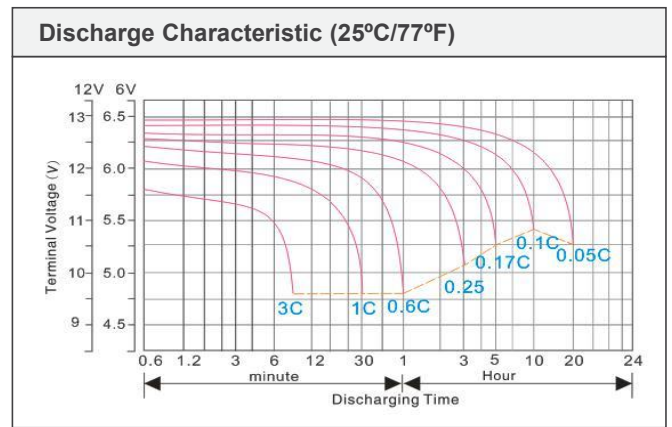
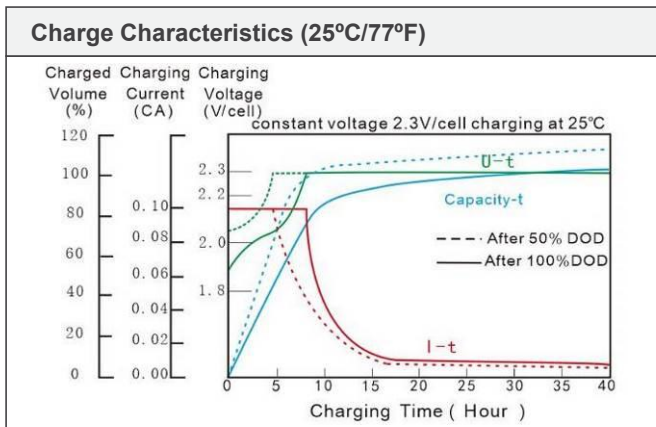
Capacity affected by Temperature	
40°C(104°F)	103%
25°C(77°F)	100%
0°C(32°F)	86%

Cycle Application
1. Limit initial current less than 1.95A.
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 0.0468A 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 13.6to 13.8 volts with current limit 1.95A 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



☆The datasheet subjects to change without prior notice,please contact with us if have any questions.