

VRLA AGM Battery

BT-12M7.2AC(STB)



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

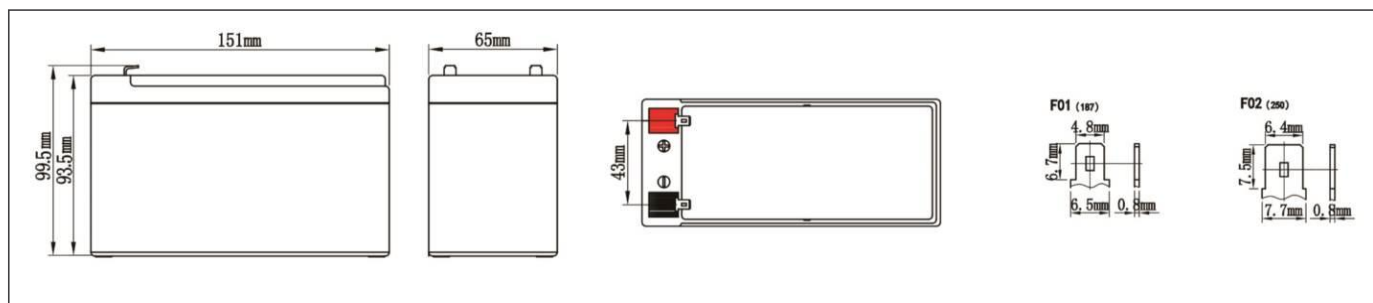
Application

- 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	Approx1.8kg (3.96lbs)	≈29.7 mΩ	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	15.4	12.0	6.15	4.33	3.62	2.89	2.16	1.63	1.042	0.694	0.559	0.300
9.9V	14.7	11.5	5.85	4.18	3.54	2.82	2.09	1.59	1.018	0.681	0.553	0.296
10.2V	14.0	10.9	5.58	4.05	3.45	2.75	2.05	1.55	0.993	0.668	0.547	0.293
10.5V	13.8	10.8	5.51	4.00	3.43	2.70	1.98	1.49	0.969	0.660	0.543	0.291
10.8V	13.6	10.7	5.47	3.96	3.41	2.65	1.90	1.45	0.953	0.651	0.536	0.286
Constant Power Discharge Data Sheet (@25°C) Unit: W												
9.6V	182	148	84	59	44.1	33.9	25.6	18.2	11.97	8.39	6.63	3.58
9.9V	174	142	80	57	43.2	33.1	24.9	17.8	11.73	8.22	6.56	3.53
10.2V	166	135	76	55	42.0	32.2	24.3	17.3	11.40	8.03	6.50	3.50
10.5V	161	130	74	54	41.4	31.8	23.9	16.9	11.24	7.96	6.40	3.45
10.8V	155	127	72	53	40.7	31.3	23.6	16.6	11.16	7.88	6.30	3.40

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

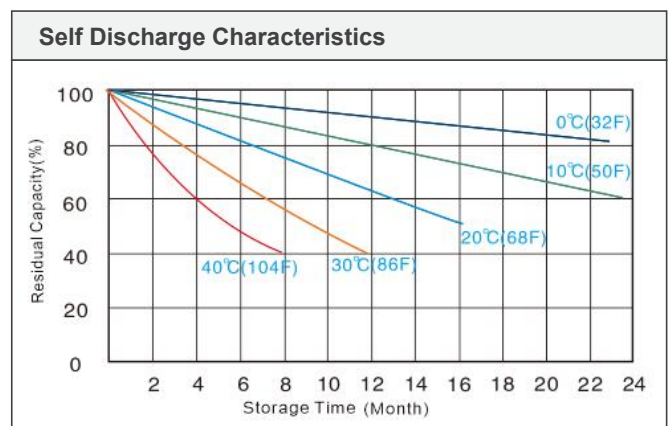
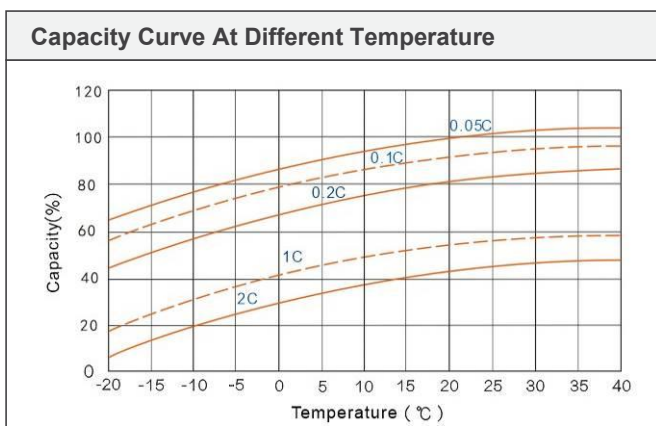
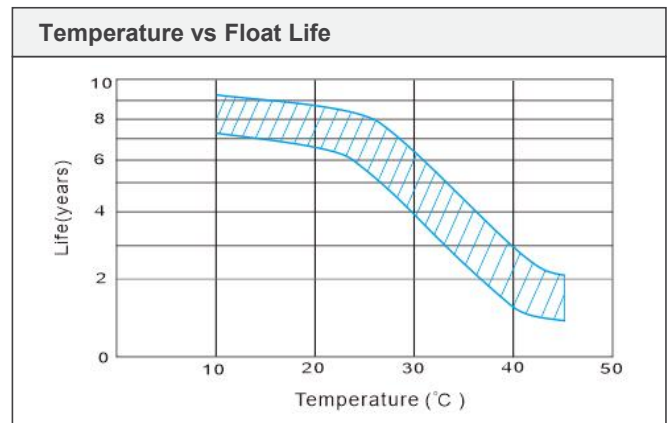
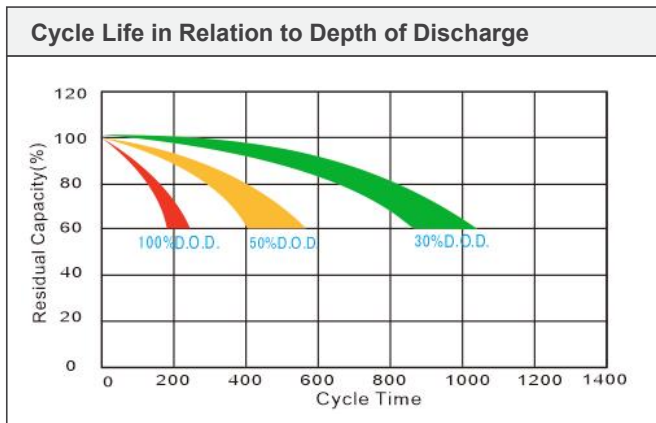
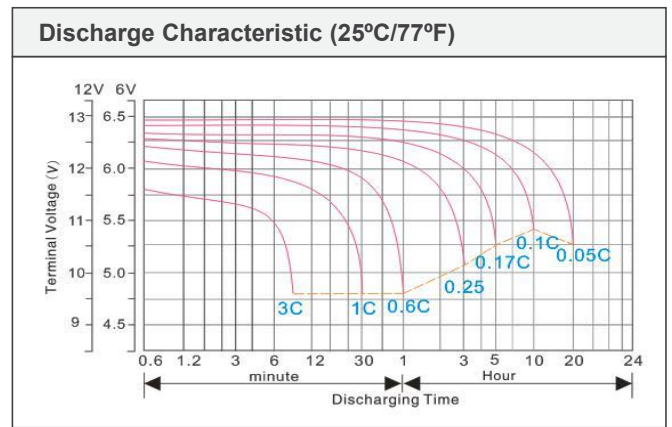
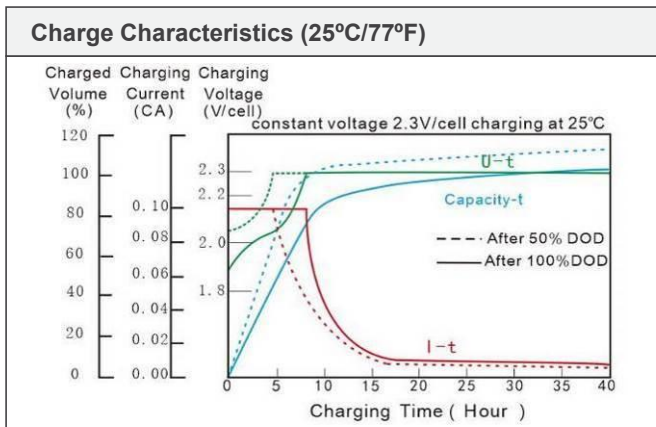
Rated Capacity	
20 hour rate (0.285A)	5.82AH
10 hour rate (0.57A)	5.36AH
5 hour rate (0.969A)	4.85AH
27 minute rate (5.7A)	2.57AH
7 minute rate (17.1A)	2.00AH

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 1.425A.
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 0.034A 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 1.425A 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.