

VRLA AGM Battery

BT-12M7.0AT [12V7.0Ah]



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, 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.

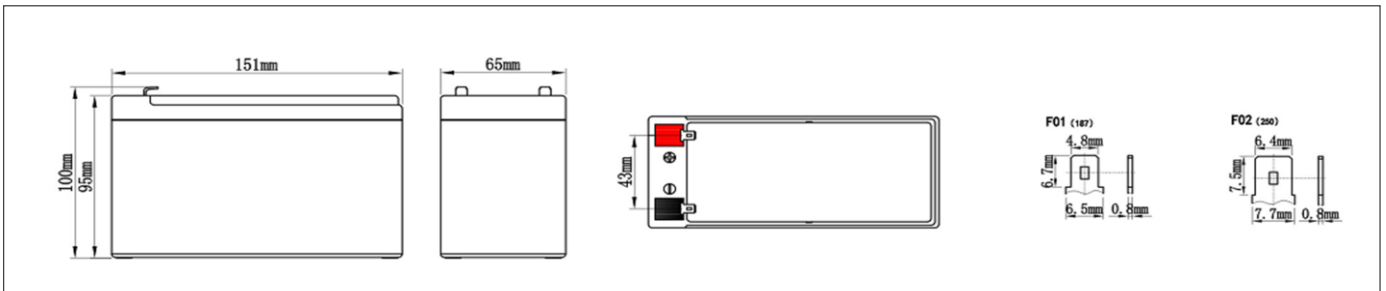
Applications

- 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 (20HR)	Dimension				Weight ±3%	Internal Resistance (In full charge status)	Standard Terminals
		L	W	H	TH			
12V	7Ah	151±2mm	65±2mm	93±2mm	100±2mm	Approx 2.15kg (4.63lbs)	≤ 28mΩ	F01/F02 (standard)

Dimensions



Constant-Voltage Charge

Nominal Capacity 77°F(25°C)	
20 hour rate (0.375A to 10.8V)	7.50Ah
10 hour rate (0.70A to 10.8V)	7.00Ah
5 hour rate (1.27A to 10.5V)	6.35Ah
3 hour rate (1.93A to 10.5V)	5.79Ah
1 hour rate (4.65A to 10.2V)	4.65Ah
Capacity affected by Temperature	
40°C(104°F)	103%
25°C(77°F)	100%
0°C(32°F)	86%

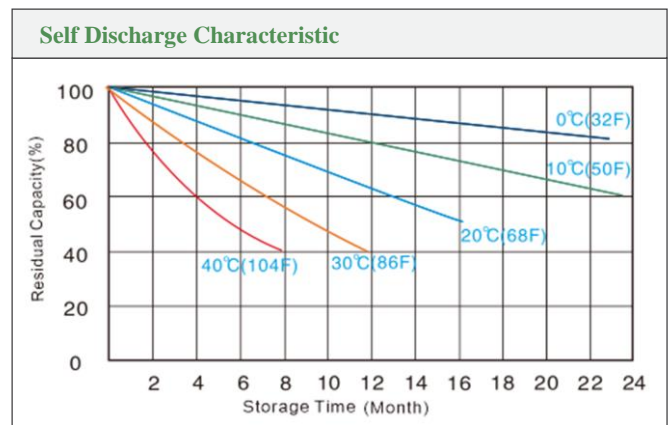
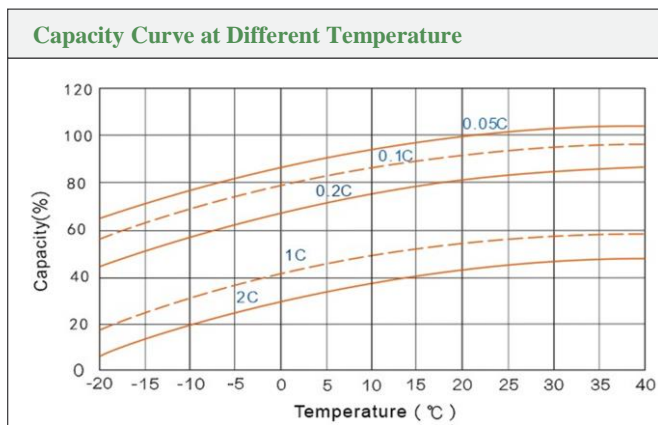
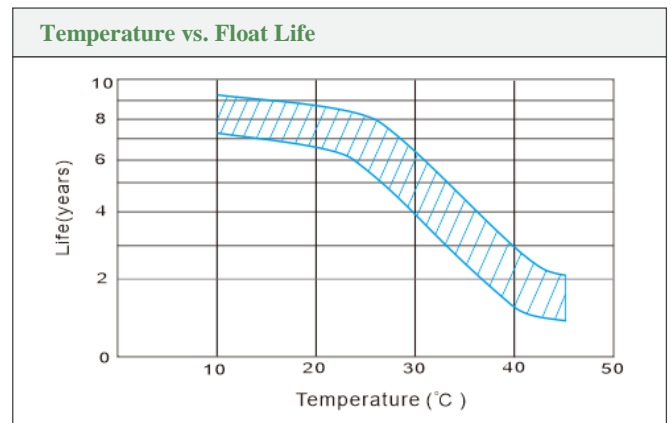
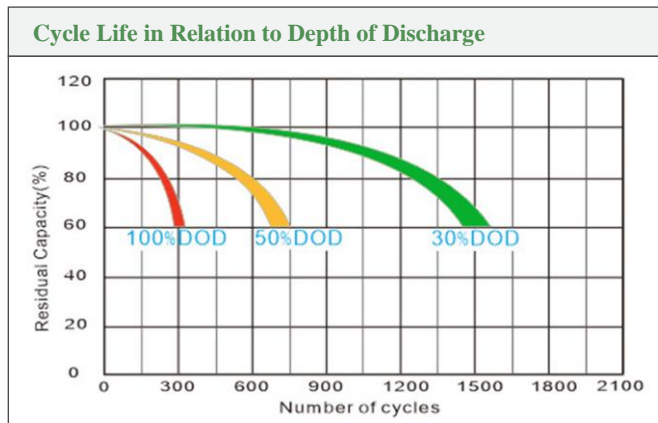
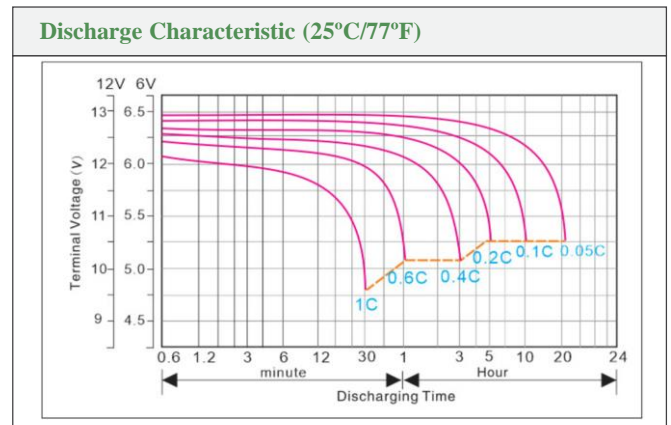
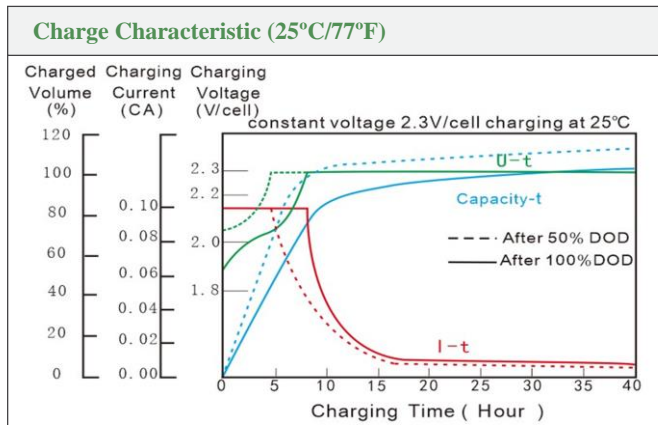
Cycle Application
1. Limit initial current less than 1.875A
2. Charge until battery voltage (under charge) reaches 14.1V to 14.4V at 25°C(77°F)
3. Hold at 14.1V to 14.4V until current drop to under 0.045A for at least 3 hours
4. Temperature compensation coefficient of charging voltage is -30mV/°C
Standby Service
1. Hold battery across constant voltage source of 13.6 to 13.8 volts with current limit 1.875A 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 Volts/Cell	Minute (M)					Hour (H)							
	5	10	15	30	45	1	1.5	2	3	5	8	10	20
Constant Current Discharge Data Sheet (@25°C) Unit: A													
1.70	26.9	19.5	14.2	7.8	5.5	4.65	3.62	2.58	1.98	1.30	0.88	0.714	0.383
1.75	25.5	18.6	13.5	7.4	5.3	4.54	3.54	2.52	1.93	1.27	0.86	0.707	0.379
1.80	24.8	17.7	12.9	7.1	5.1	4.43	3.45	2.46	1.88	1.24	0.85	0.700	0.375
Constant Power Discharge Data Sheet (Watts at 25°C)													
1.70	47.00	34.83	28.67	16.17	11.50	8.720	6.700	5.050	3.570	2.390	1.670	1.310	0.710
1.75	45.00	33.33	27.33	15.50	11.17	8.500	6.530	4.920	3.470	2.330	1.640	1.300	0.700
1.80	42.67	31.67	26.00	14.67	10.67	8.280	6.380	4.800	3.380	2.270	1.610	1.280	0.690

Performance Characteristics



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