

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
- Flame retardant ABS (UL 94-FV0)

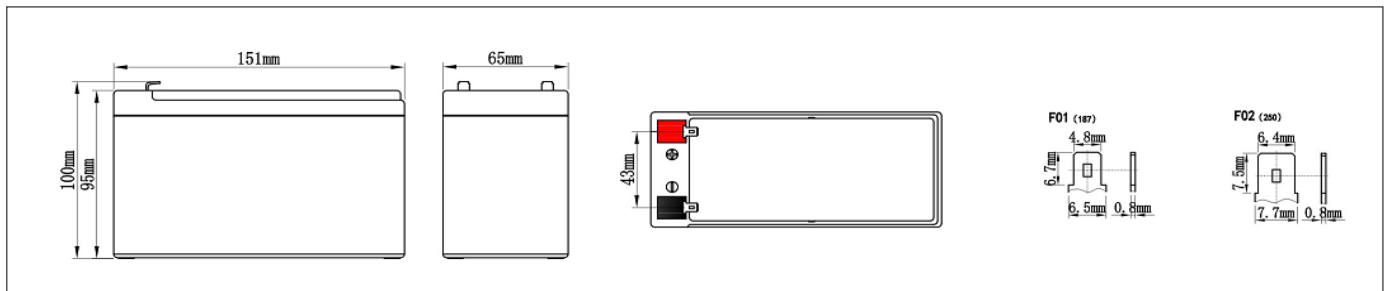
Application

- 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 (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)	≤25mΩ	F01/F02 (standard)

Dimensions



Constant-Voltage Charge

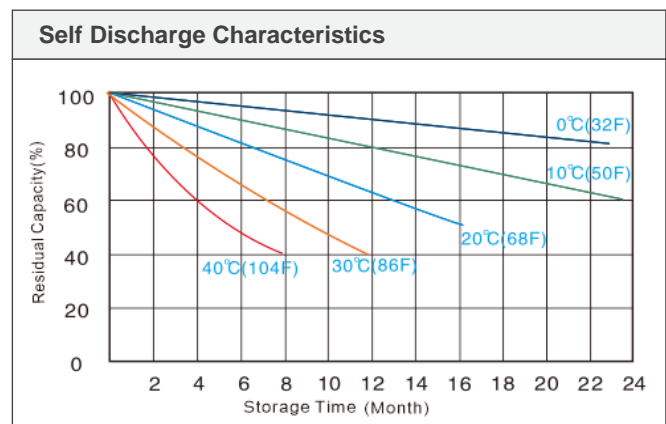
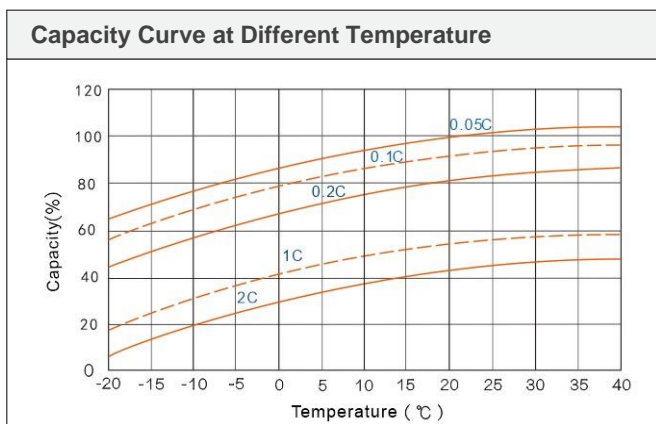
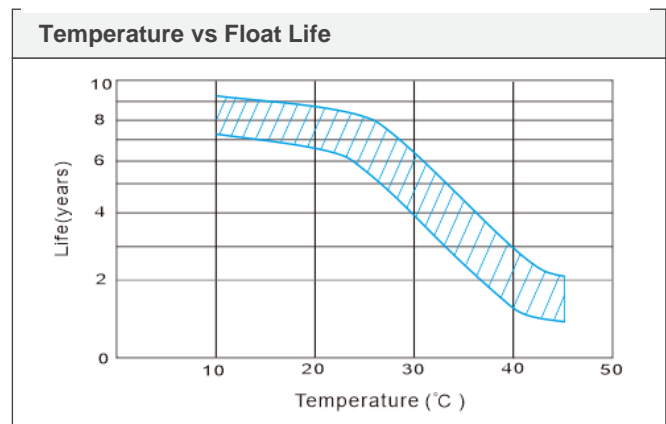
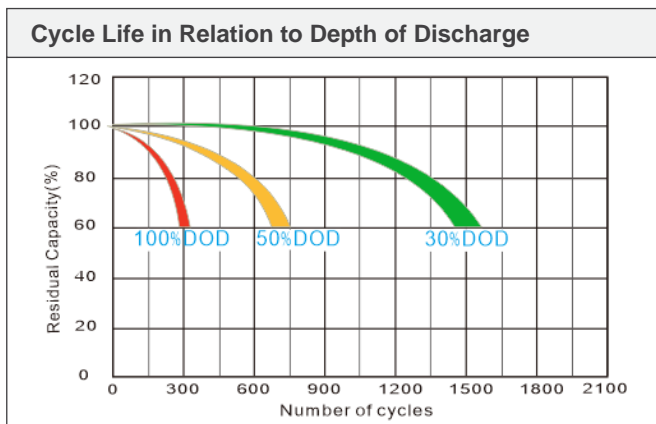
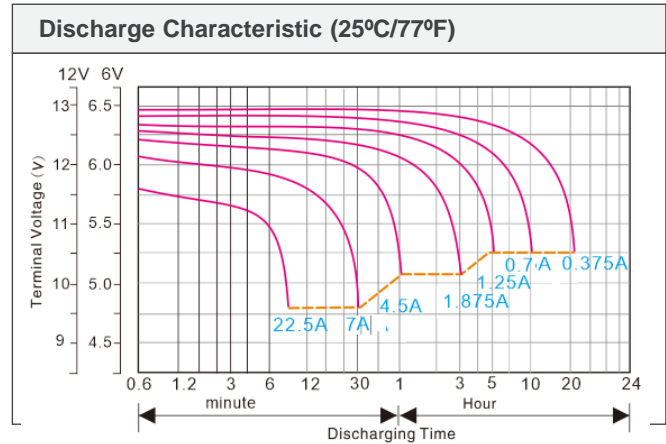
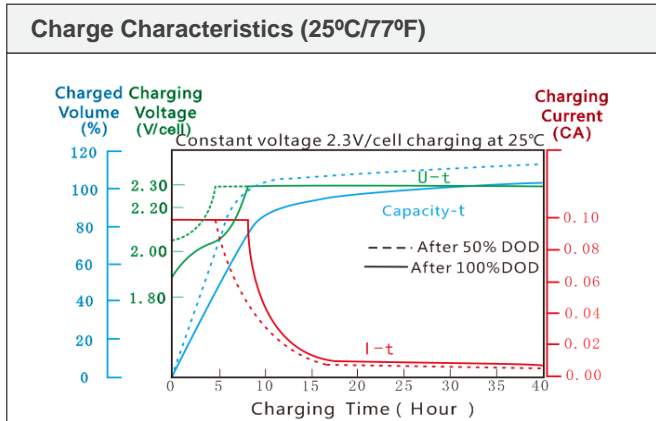
Rated Capacity		Cycle Application	
20 hours rate (0.375A)	7.50AH	1. Limit initial current less than 1.875A.	
10 hours rate (0.70A)	7.00AH	2. Charge until battery voltage (under charge) reaches 14.1V to 14.4V at 25°C(77°F).	
5 hours rate (1.275A)	6.10AH	3. Hold at 14.1V to 14.4V until current drop to under 0.045A for at least 3 hours.	
27 minutes rate (7.0A)	3.15AH	4. Temperature compensation coefficient of charging voltage is -30mV/°C.	
7 minutes rate (22.5A)	2.63AH	Standby Service	
Capacity affected by Temperature		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.	
40°C(104°F)	103%	2. Temperature compensation coefficient of charging voltage is -18mV/°C.	
25°C(77°F)	100%		
0°C(32°F)	86%		

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)							
	5	10	15	30	45	1	1.5	2	3	5	8	10	20
Constant Current Discharge Data Sheet (@25°C) Unit: A													
9.6V	30.1	21.5	15.7	8.6	5.9	4.89	3.81	2.72	2.08	1.37	0.92	0.728	0.390
9.9V	28.6	20.5	14.9	8.2	5.7	4.77	3.72	2.65	2.02	1.34	0.90	0.721	0.386
10.2V	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
10.5V	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
10.8V	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 (@25°C) Unit: W													
9.6V	320	231	190	107	74	54.9	42.2	31.8	22.4	15.05	10.44	8.01	4.33
9.9V	304	220	181	102	71	53.6	41.2	31.0	21.9	14.68	10.23	7.93	4.28
10.2V	282	209	172	97	69	52.3	40.2	30.3	21.4	14.32	10.03	7.86	4.24
10.5V	270	200	164	93	67	51.0	39.2	29.5	20.8	13.97	9.84	7.78	4.20
10.8V	256	190	156	88	64	49.7	38.3	28.8	20.3	13.63	9.64	7.70	4.16

Performance Characteristics



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