Minute-Bank







VRLA AGM Battery

BT-12M5.0AC[12V5.0Ah]



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
- Wide operating temperature range from 0°C~40°C
- Lead Aluminum calcium Tin alloy high energy, prevent corrosion

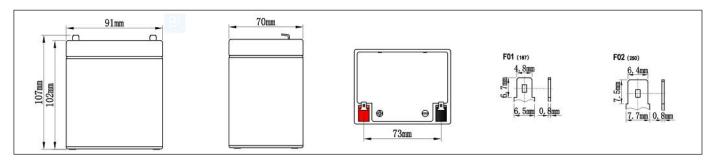
Application

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

Physical Specifications

Nominal Voltage	Nominal	Nominal		Dime	nsion		Internal	Standard	
	Capacity (20HR)	L	W	Н	TH	Weight ±2%	Resistance (In full charge status)	Terminals	
	12V	5.0AH	91±2mm	70±2mm	102±2mm	107±2mm	Approx1.56kg (3.43lbs)	≈27.5 mΩ	F01/F02 (standard)

X Dimensions



Battery Discharge Table

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- 11/1/ AD	Minute (M)				Hour (H)							
End Voltage (V)	10	15	30	45	1	1.5	2	3	5	8	10	20
Constant Current Discharge Data Sheet (@25°C) Unit: A												
9.6V	14.7	11.8	6.01	4.39	3.23	2.64	2.02	1.51	0.951	0.631	0.530	0.281
9.9V	14.0	11.1	5.72	4.24	3.16	2.57	1.98	1.48	0.928	0.619	0.525	0.279
10.2V	13.3	10.6	5.45	4.10	3.08	2.51	1.92	1.44	0.905	0.606	0.520	0.276
10.5V	13.1	10.4	5.29	4.00	3.07	2.48	1.87	1.40	0.884	0.600	0.515	0.274
10.8V	12.8	10.1	5.10	3.83	3.04	2.41	1.78	1.35	0.877	0.595	0.510	0.270
	Constant Power Discharge Data Sheet (@25°C) Unit: W											
9.6V	174	140	79.2	56.2	41.8	32.1	24.1	17.3	11.3	7.92	6.29	3.39
9.9V	165	133	75.4	54.2	40.9	31.3	23.6	16.8	11.1	7.77	6.23	3.35
10.2V	157	127	71.9	52.4	39.8	30.6	23.0	16.4	10.8	7.61	6.17	3.32
10.5V	152	124	70.4	51.2	39.2	30.2	22.7	16.0	10.7	7.56	6.06	3.28
10.8V	147	120	68.3	49.9	38.6	29.6	22.4	15.8	10.6	7.48	5.97	3.22

A 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 (0.26A)	5.48AH						
10 hour rate (0.52A)	5.10AH						
5 hour rate (0.884A)	4.42AH						
27 minute rate (5.2A)	2.34AH						
7 minute rate (15.6A)	1.82AH						
Capacity affected by Temperature							
40°C(104°F)	103%						
25°C(77°F)	100%						
0°C(32°F)	86%						

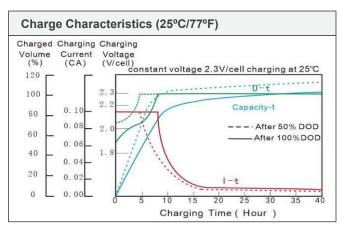
Cycle Application

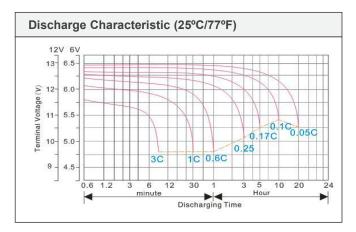
- 1. Limit initial current less than 1.3A.
- 2. Charge until battery voltage (under charge) reaches 14.1V to 14.4V at 25°C(77°F).
- 3. Hold at 14.1V to 14.4V until current drop to under 0.031A for at least 3 hours.
- 4. Temperature compensation coefficient of charging voltage is -30mV/°C.

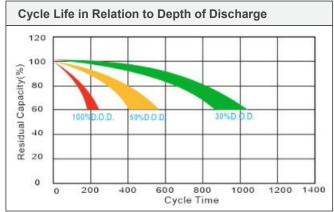
Standby Service

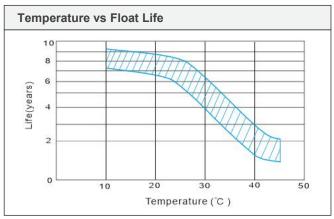
- 1. Hold battery across constant voltage source of 13.6to 13.8 volts with current limit 1.3A continuously .When held at this voltage , the battery will seek its own current level and maintain itself in a fully charge status.
- 2. Temperature compensation coefficient of charging voltage is -18mV/°C.

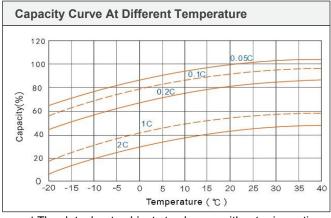
Performance Characteristics

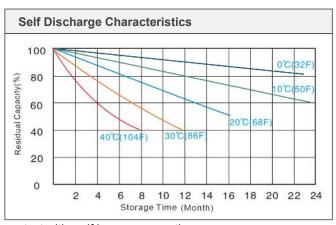












☆The datasheet subjects to change without prior notice,please contact with us if have any questions。

