



## VRLA AGM Battery BT-12M7.2AT[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

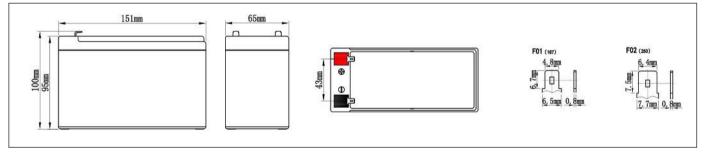
# **Application**

- DC power supply
- UPS/EPS power supply
- Electrical devices & instruments
- Security and fire alarm systems
- Telecom stations and power stations
- Medical equipments
- Emergency lighting systems

## **Description** Physical Specifications

Nominal	Nominal		Dime	nsion		Internal	Standard Terminals	
Voltage	Capacity (20HR)	L	W	н тн		Weight ±3%		
12V	7.2AH	151±2mm	65±2mm	95±2mm	100±2mm	Approx2.10kg (4.63lbs)	≈15.4 mΩ	F01/F02 (standard)

# X Dimensions



#### **Battery Discharge Table**

End Voltage	Minute (M)					Hour (H)										
(V)	5	10	15	20	30	45	1	1.5	2	3	4	5	6	8	10	20
			С	onstar	t Curr	ent Dis	charge	e Data	Sheet	(Amp	eres at	: 25°C)				
10.20	26.78	17.45	13.69	9.82	6.98	5.06	4.32	3.45	2.568	1.944	1.481	1.240	1.115	0.833	0.685	0.367
10.50	26.58	17.26	13.49	9.73	6.91	5.01	4.29	3.39	2.479	1.874	1.439	1.220	1.099	0.823	0.679	0.363
10.80	26.28	17.06	13.39	9.64	6.85	4.96	4.26	3.32	2.380	1.815	1.408	1.200	1.083	0.813	0.672	0.358
				Cons	tant Po	ower D	ischar	ge Dat	a She	et (Wa	tt at 25	5°C)				
10.20	287.6	207.3	168.0	115.4	94.87	69.16	52.61	40.35	30.36	21.67	17.24	14.28	13.09	10.06	8.14	4.38
10.50	275.7	200.3	162.9	114.3	92.90	67.56	51.78	39.76	29.93	21.17	16.83	14.12	12.96	9.98	8.01	4.32
10.80	261.8	193.4	157.7	113.1	90.21	65.85	50.92	39.17	29.50	20.81	16.43	13.95	12.82	9.88	7.88	4.26

A NOTE : The battery should be charged within 6 months of storage, Otherwise, permanent loss of capacity might occur as a result of sulfation

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## Constant-Voltage Charge

Rated Capacity					
20 hour rate (0.36A)	7.21AH				
10 hour rate (0.72A)	6.70AH				
5 hour rate (1.224A)	5.80AH				
27 minute rate( 7.2A)	3.60AH				
7 minute rate (21.6A)	2.75AH				
Capacity affected by T	Femperature				
40°C(104°F)	103%				
25°C(77°F)	100%				
0°C(32°F)	86%				

Cycle Application
1. Limit initial current less than1.8A.
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 0.0432A 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 limit1.8A continuously .When held at this voltage , the battery will seek its
own current level and maintain itself in a fully charge status.

#### **Performance Characteristics**

