

VRLA AGM Battery

BT-12M12AC [12V12Ah]



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.

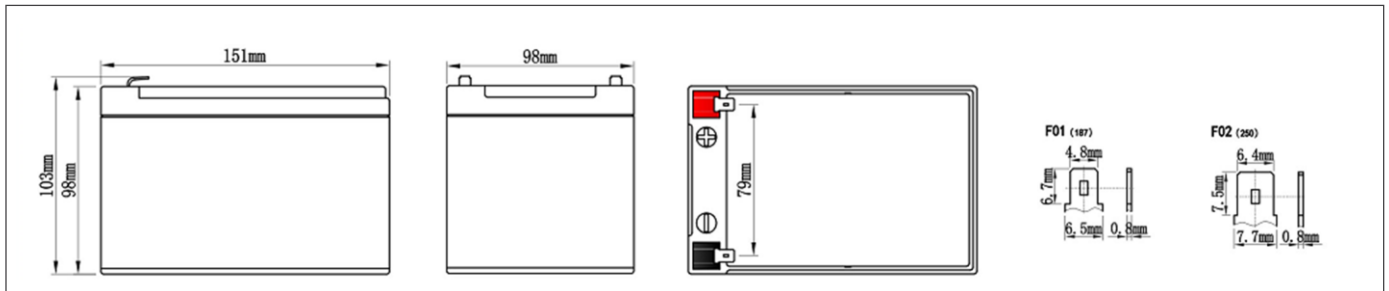
Applications

- 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	12Ah	151±2mm	98±2mm	95±2mm	100±2mm	Approx 3.75g (8.60lbs)	≤ 18.5mΩ	F01/F02 (standard)

Dimensions



Constant-Voltage Charge

Rated Capacity	
20 hour rate (0.65 to 10.8V)	13.0Ah
10 hour rate (1.20A to 10.8V)	12.0Ah
5 hour rate (2.08A to 10.5V)	10.4Ah
3 hour rate (3.19A to 10.5V)	9.57Ah
1 hour rate (8.32A to 10.2V)	8.32Ah
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 3.0A
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 0.084A 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 3.0A 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

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 (Amperes at 25°C)													
1.70	51.3	33.4	26.2	13.4	9.67	8.32	6.65	4.97	3.25	2.18	1.59	1.25	0.71
1.75	50.8	33.1	25.9	13.2	9.58	8.26	6.53	4.79	3.19	2.08	1.58	1.24	0.68
1.80	50.3	32.7	25.6	13.1	9.48	8.20	6.40	4.60	3.10	2.04	1.56	1.20	0.65
Constant Power Discharge Data Sheet (Watt at 25°C)													
1.70	93.83	67.67	54.67	30.92	22.53	17.15	13.150	9.890	7.060	4.650	3.280	2.650	1.430
1.75	89.83	65.33	53.17	30.27	22.02	16.87	12.960	9.750	6.900	4.600	3.250	2.610	1.410
1.80	85.17	63.00	51.33	29.40	21.47	16.59	12.760	9.610	6.780	4.550	3.220	2.570	1.390

Performance Characteristics

