

VRLA AGM Battery

BT-12M17AC [12V17Ah]



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.
- ABS flame retardant case, classified to UL94-V0 is available on request.

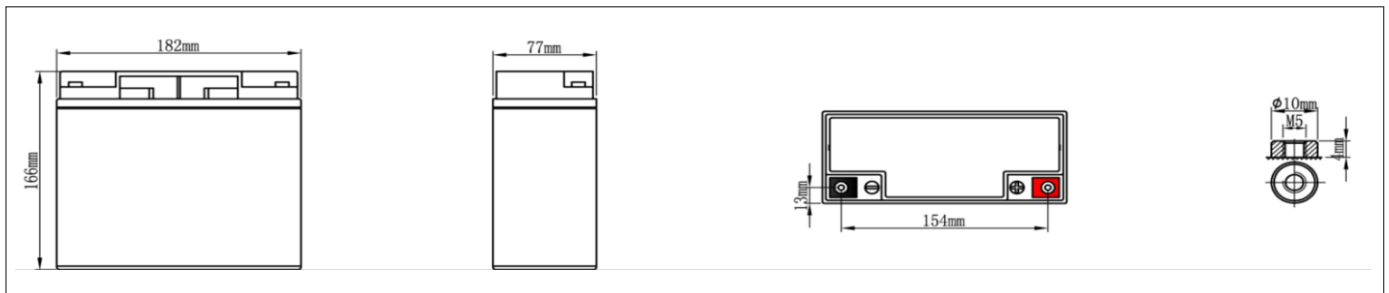
Applications

- 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 (±3mm)				Weight ±3%	Internal Resistance (In full charge status)	Standard Terminals
		L	W	H	TH			
12V	17Ah	182 mm	77 mm	166 mm	166 mm	Approx. 5.1kg (11.24lbs)	≤ 20mΩ	F13 (standard)

Dimensions



Constant-Voltage Charge

Rated Capacity	
20 hour rate (0.85A to 10.8V)	17.00Ah
10 hour rate (1.59A to 10.8V)	15.90Ah
5 hour rate (2.86A to 10.5V)	14.30Ah
3 hour rate (4.41A to 10.5V)	13.23Ah
1 hour rate (10.2A to 10.2V)	10.20Ah
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 4.5A
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 0.11A 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 4.5A 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)								
	10	15	30	45	1	1.5	2	3	5	8	10	20	
Constant Current Discharge Data Sheet (Amperes at 25°C) Unit: A													
1.70	40.9	32.1	16.4	11.9	10.2	8.12	6.04	4.56	2.91	1.95	1.62	0.87	
1.75	40.5	31.8	16.3	11.8	10.2	7.98	5.81	4.41	2.86	1.93	1.61	0.86	
1.80	40.1	31.4	16.0	11.6	10.1	7.84	5.58	4.26	2.81	1.91	1.59	0.85	
Constant Power Discharge Data Sheet (Watt at 25°C) Unit: W													
1.70	83.33	67.5	38.17	27.83	21.17	16.20	12.18	8.70	5.73	4.03	3.27	1.77	
1.75	80.50	65.5	37.33	27.17	20.83	15.97	12.01	8.50	5.67	4.00	3.22	1.73	
1.80	77.50	63.3	36.17	26.50	20.50	15.73	11.85	8.35	5.60	3.97	3.17	1.72	

Performance Characteristics

