

## VRLA AGM Battery

BT-12M33AC[12V33Ah]



### 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

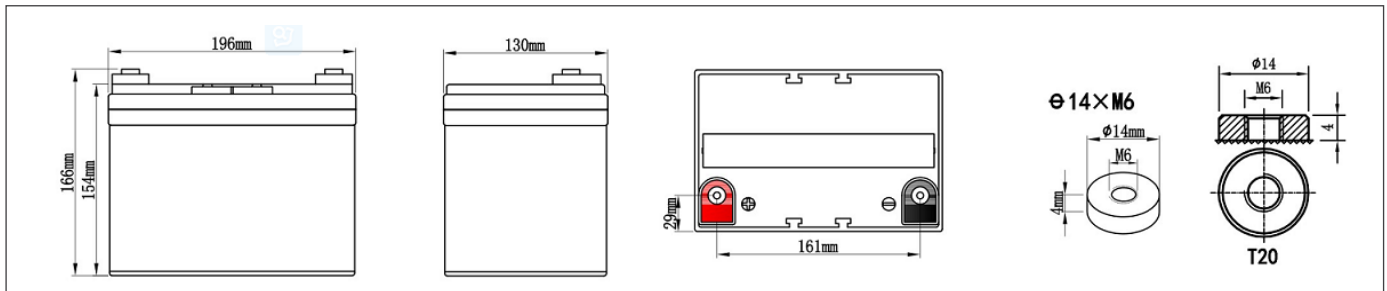
### Application

- DC power supply
- UPS/EPS power supply
- Electrical devices & instruments
- Security and fire alarm systems
- Telecom stations and power stations
- Medical 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	33AH	196±2mm	130±2mm	154±2mm	166±2mm	Approx 9.80kg (21.78lbs)	≤ 8mΩ	T20 (standard)

### Dimensions



### Constant-Voltage Charge

Rated Capacity	
20 hour rate (1.65A)	35.00AH
10 hour rate (3.30A)	33.03AH
5 hour rate (5.61A)	28.05AH
27 minute rate (33A)	14.85AH
7 minute rate (99A)	11.55AH
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 8.25A.
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 0.198A 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 8.25A 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 Voltage	Minute (M)				Hour (H)							
	10	15	30	45	1	1.5	2	3	5	8	10	20
<b>Constant Current Discharge Data Sheet (@25°C) Unit: A</b>												
9.6V	95	75	38.3	26.4	21.7	16.8	11.9	9.12	6.04	4.04	3.43	1.79
9.9V	91	71	36.5	25.5	21.2	16.4	11.6	8.90	5.89	3.96	3.40	1.77
10.2V	86	68	34.7	24.6	20.7	16.0	11.3	8.68	5.75	3.88	3.37	1.75
10.5V	82	64	33.1	23.8	20.2	15.6	11.1	8.47	5.61	3.80	3.33	1.74
10.8V	78	61	31.5	23.0	19.7	15.3	10.8	8.26	5.47	3.73	3.30	1.72
<b>Constant Power Discharge Data Sheet (@25°C) Unit: W</b>												
9.6V	1081	882	504	348	258	199	150	106	71	49.2	37.8	20.4
9.9V	1029	840	480	336	252	194	146	103	69	48.2	37.4	20.2
10.2V	980	800	458	325	246	189	143	101	67	47.3	37.0	20.0
10.5V	933	762	436	314	240	185	139	98	66	46.3	36.6	19.8
10.8V	889	726	415	303	234	180	136	96	64	45.4	36.3	19.6

## Performance Characteristics

