

# **MinutcBank**

# **VRLA AGM Battery**

BT-12M18AC[12V18Ah]



# 🗳 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 10°C~40°C
- Lead Aluminum calcium Tin alloy high energy, prevent corrosion

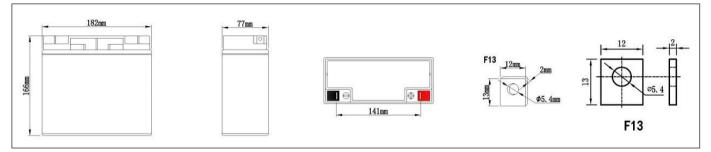
### **Application**

- 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 Capacity (20HR)		Dime	nsion		Internal	Standard	
Voltage		L	W	Н	тн	Weight ±3%	Resistance (In full charge status)	Terminals
12V	18AH	182±2mm	77±2mm	166±2mm	166±2mm	Approx 5.15kg (11.35lbs)	≈15.5 mΩ	F13 (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
	Constant Current Discharge Data Sheet (Amperes at 25°C)															
10.20	66.6	42.3	33.4	23.5	17.4	12.6	10.8	8.60	6.40	4.83	3.54	3.08	2.72	2.06	1.72	0.921
10.50	65.9	41.9	33.1	23.3	17.2	12.4	10.7	8.43	6.15	4.67	3.46	3.03	2.68	2.04	1.70	0.911
10.80	65.2	40.5	32.3	23.0	17.0	12.3	10.7	8.31	5.91	4.51	3.37	2.97	2.64	2.02	1.68	0.900
Constant Power Discharge Data Sheet (Watt at 25°C)																
10.20	726	523	423	283	239	174.3	132.6	101.7	76.53	54.62	42.5	36.00	32.52	25.35	20.52	11.05
10.50	695	506	411	280	234	170.3	130.5	100.2	75.45	53.38	41.6	35.59	32.19	25.15	20.21	10.89
10.80	659	487	398	277	227	166.0	128.4	98.74	74.37	52.46	40.5	35.18	31.84	24.89	19.87	10.74

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 (0.9A)	18.80AH				
10 hour rate (1.8A)	16.28AH				
5 hour rate (3.00A)	14.50AH				
27 minute rate (18A)	8.10AH				
7 minute rate (54A)	5.95AH				
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(77F).					
3. Hold at 14.1V to 14.4V until current drop to under 0.108A 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 4.5A continuously .When held at this voltage , the battery will seek its own current level and maintain itself in a fully charge status.					

### **Performance Characteristics**

