MinuteBank

VRLA AGM Battery

BT-FT-180-12 [12V180Ah]

General Features

- Designed floating charging service life: 12 years (25ºC)
- Sealed and maintenance free operation
- Safety valve installation for explosion proof
- Low self-discharge characteristic
- Wide operating temperature range from 0ºC~40ºC
- Lead Aluminum calcium Tin alloy high energy, prevent corrosion

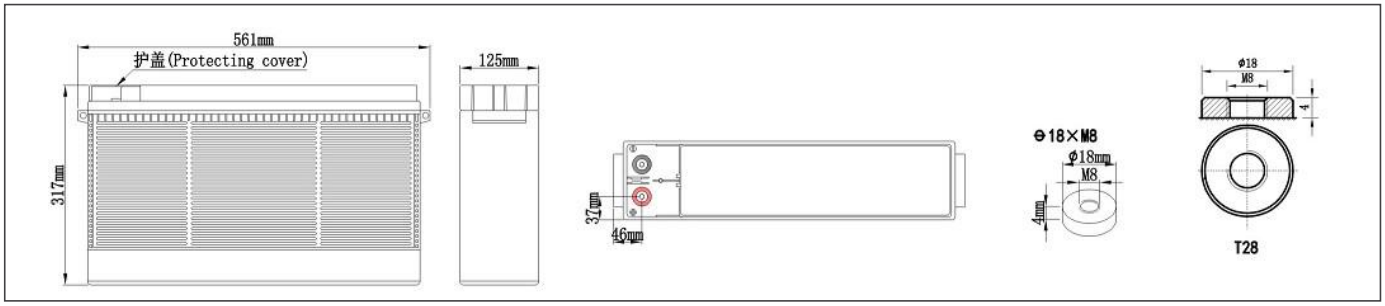
Application

- 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

Physical Specifications

Nominal Voltage	Nominal Capacity (10HR)	Dimension				Weight ±3%	Internal Resistance (In full charge status)	Standard Terminals
		L	W	H	TH			
12V	180AH	561±4mm	125±2mm	317±3mm	317±3mm	Approx 54.0kg (119.0lbs)	≈3.80mΩ	T28 (standard)

Dimensions



Battery Discharge Table

End Voltage (V)	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 25ºC)													
10.20	567	432	326	173	160	113	88.8	74.4	46.6	32.4	23.0	18.8	9.63
10.50	504	396	304	166	153	108	85.3	71.7	45.1	30.9	21.8	18.5	9.54
10.80	468	360	285	160	146	104	81.9	68.9	43.5	29.6	20.7	18.2	9.41
Constant Power Discharge Data Sheet (Watt at 25ºC)													
10.20	5634	4770	3433	2157	1620	1408	1027	772	576	371	275	234	123
10.50	5418	4050	3082	2107	1584	1386	1011	747	558	360	272	227	119
10.80	5040	3780	2942	2061	1530	1323	965	722	538	347	268	216	116

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

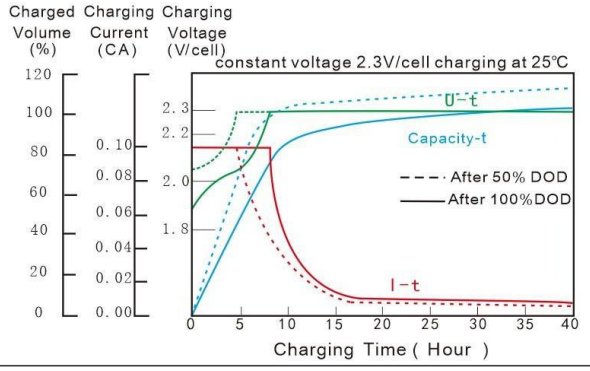
Constant-Voltage Charge

Rated Capacity	
20 hour rate (9.00A)	190.0AH
10 hour rate (18.00A)	183.0AH
5 hour rate (30.60A)	155.0AH
3 hour rate (45.00A)	140.0AH
1 hour rate (108.00A)	110.0AH
Capacity affected by Temperature	
40ºC(104ºF)	103%
25ºC(77ºF)	100%
0ºC(32ºF)	86%

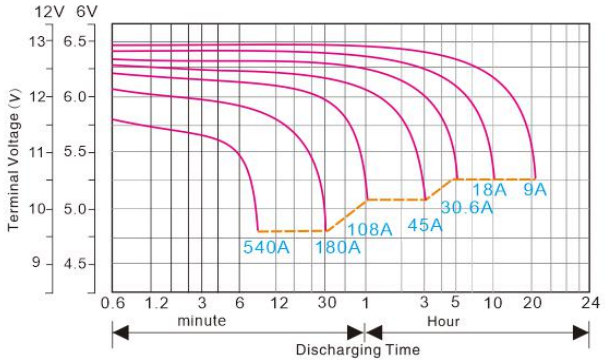
Cycle Application
1. Limit initial current less than45.0A.
2. Charge until battery voltage (under charge) reaches 14.1V to 14.4V at 25ºC(77ºF).
3. Hold at 14.1V to 14.4V until current drop to under1.08A for at least 3 hours.
4. Temperature compensation coefficient of charging voltage is -30mV/ºC.
Standby Service
1. Hold battery across constant voltage source of 13.6 to 13.8 volts with current limit*45.0*A 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/ºC.

Performance Characteristics

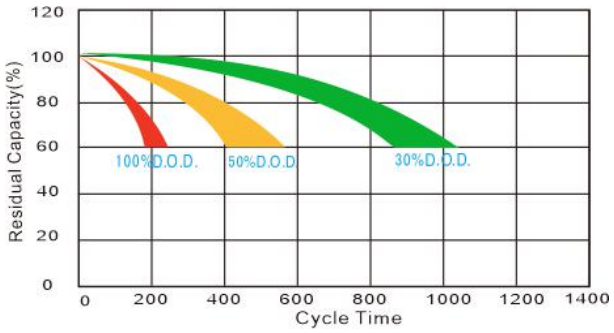
Charge Characteristics (25ºC/77ºF)



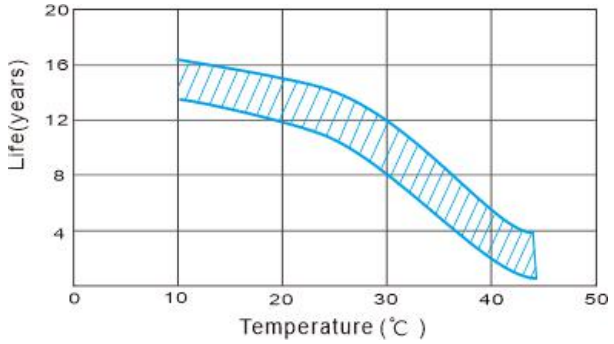
Discharge Characteristic (25ºC/77ºF)



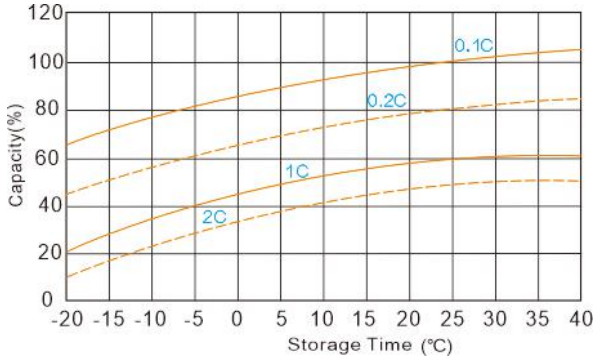
Cycle Life in Relation to Depth of Discharge



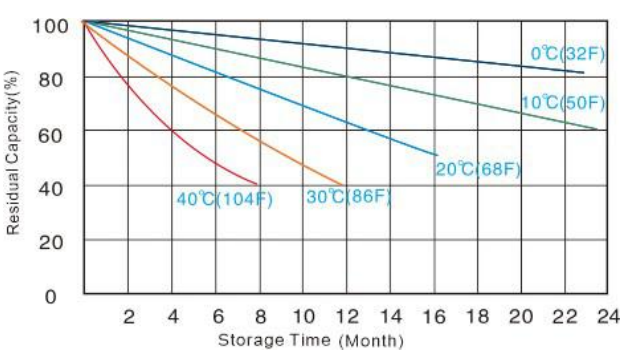
Temperature vs Float Life



Capacity Curve At Different Temperature



Self Discharge Characteristics



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