SAITE TECHNOLOGY VIET NAM JSC

VRLA AGM Battery

BT-HSE-65-12 [12V65Ah]

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.

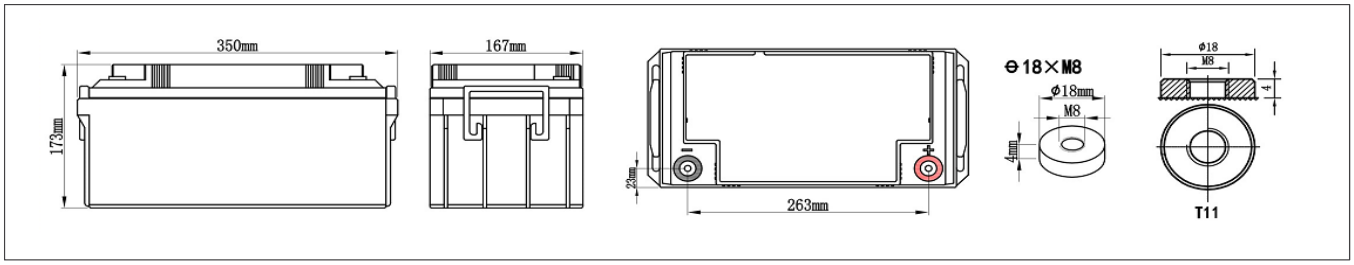
Applications

- 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 (10HR)	Dimension				Weight ±2%	Internal Resistance (In full charge status)	Standard Terminals
		L	W	H	TH			
12V	65Ah	350±3mm	167±2mm	173±3mm	173±3mm	Approx19.5kg (42.8bs)	≤ 6.8mΩ	T11 (standard)

Dimensions



Constant-Voltage Charge

Rated Capacity	
20 hour rate (3.44A to 10.8V)	68.8Ah
10 hour rate (6.50A to 10.8V)	65.0Ah
5 hour rate (10.9A to 10.5V)	54.5Ah
3 hour rate (16.1A to 10.5V)	48.3Ah
1 hour rate (39.0A to 10.2V)	39.0Ah
Capacity affected by Temperature	
40ºC(104ºF)	103%
25ºC(77ºF)	100%
0ºC(32ºF)	86%

Cycle Application
1. Limit initial current less than 16.25A
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 under 0.42A 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 16.25A 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/ºC

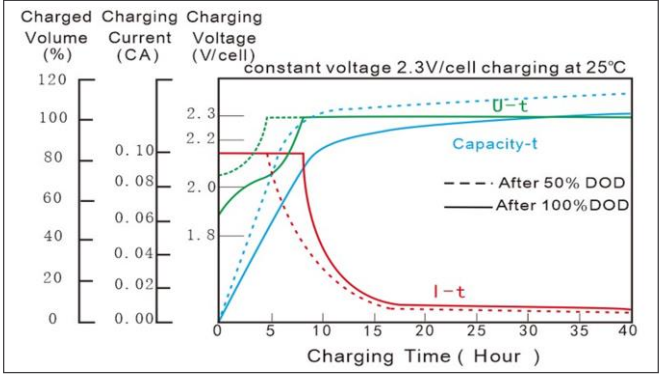
NOTE: The battery should be charged within 6 months of storage, Otherwise, permanent loss of capacity might occur as a result of sulfation

Battery Discharge Table

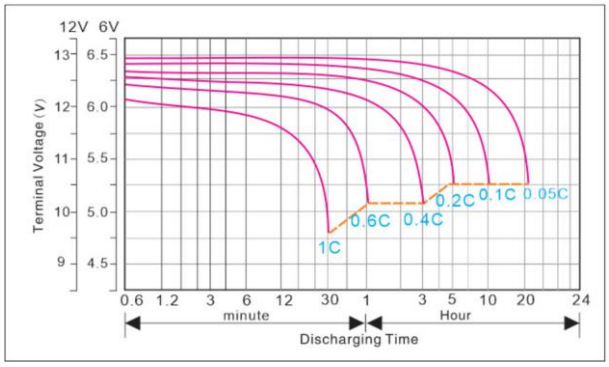
End Volts/Cell	Minute (M)				Hour (H)							
	10	15	30	45	1	1.5	2	3	5	8	10	20
Constant Current Discharge Data Sheet (@25°C) Unit: A												
1.70V	143	114	64	56	39	31	26.1	16.5	11.2	7.8	6.64	3.51
1.75V	137	108	61	55	38	30	25.5	16.1	10.9	7.6	6.58	3.47
1.80V	130	103	58	53	37	30	24.9	15.7	10.7	7.5	6.50	3.44
Constant Power Discharge Data Sheet (@25°C) Unit: W												
1.70V	246	208	137	98.7	83.7	61.0	45.7	34.0	21.8	16.8	13.3	7.12
1.75V	235	198	130	95.3	81.7	59.5	44.7	33.2	21.3	16.5	13.1	7.05
1.80V	224	189	124	92.2	79.7	58.0	43.5	32.3	20.8	16.2	13.0	6.98

Performance Characteristics

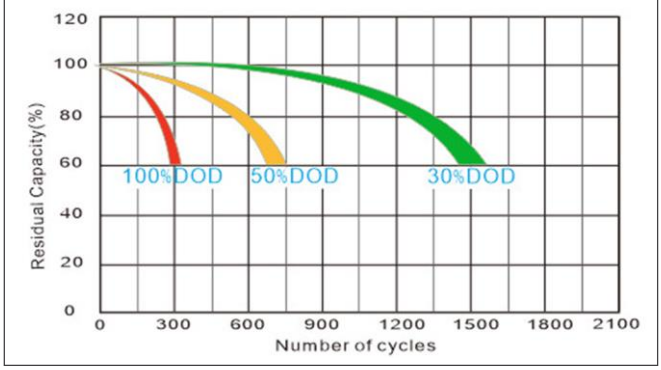
Charge Characteristic (25°C/77°F)



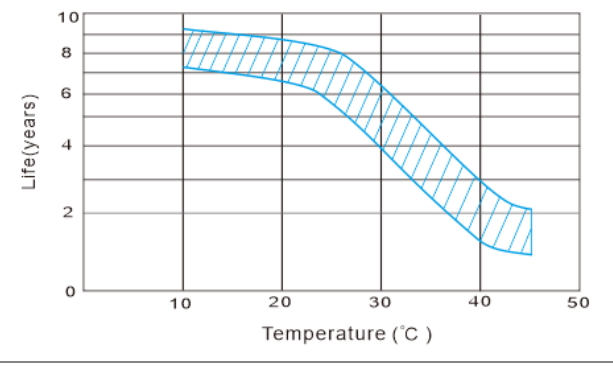
Discharge Characteristic (25°C/77°F)



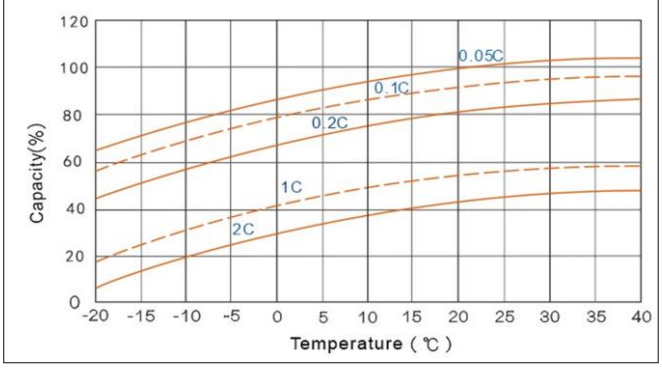
Cycle Life in Relation to Depth of Discharge



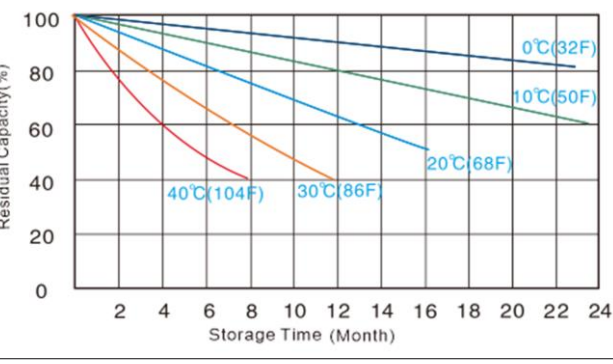
Temperature vs. Float Life



Capacity Curve at Different Temperature



Self Discharge Characteristic



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