

**SBH12-100** AGM VRLA  
12V – 100AH

**General Features:**

- Designed floating charging service life: 12 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 Aluminium calcium Tin alloy high energy, prevent corrosion



Design Life  
12 Years



Low Internal  
Resistance



High Current  
Performance



Fast  
Charging



Recyclable  
(Pb)

**Applications:**

Uninterruptible Power Supply (UPS)  
Telecom Stations and Power Station

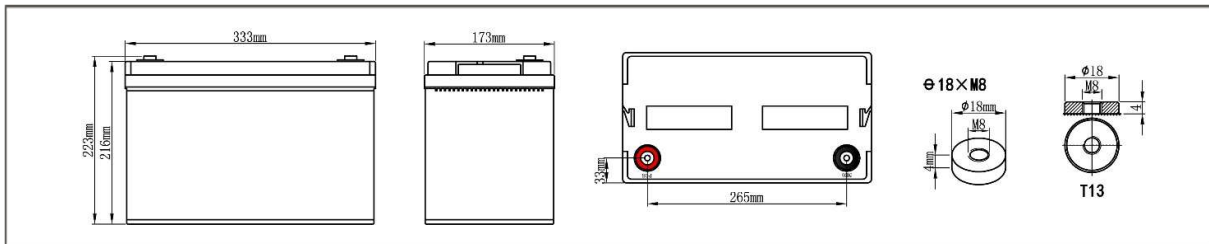
Medical Equipment's  
Fire Alarm and Security Systems

DC Power Supply  
Emergency Lighting

**Physical Specifications:**

Nominal Voltage	Nominal Capacity (10HR)	Dimensions				Weight	Internal Resistance (In full charge status)	Standard Terminals
		Length	Width	Height	Total Height			
12V	100AH	333mm	173mm	216mm	223mm	Approx 30.0kg (66.14lbs)	≈4.0 mΩ	T13 (Standard)

**Dimensions:**



**Constant Voltage Discharge:**

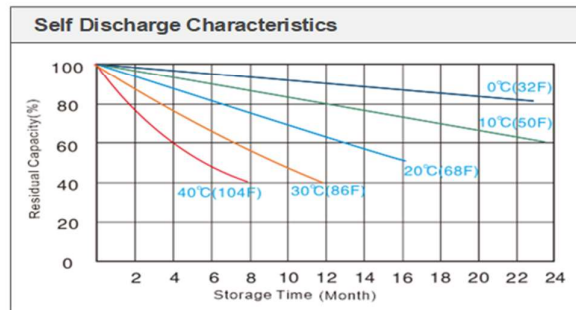
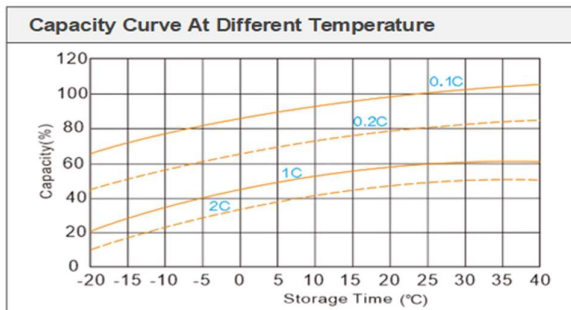
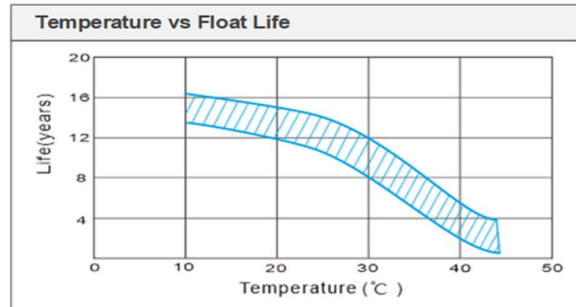
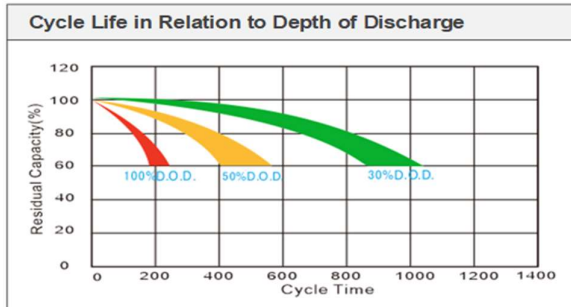
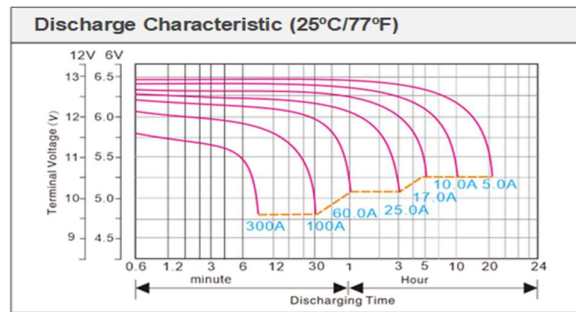
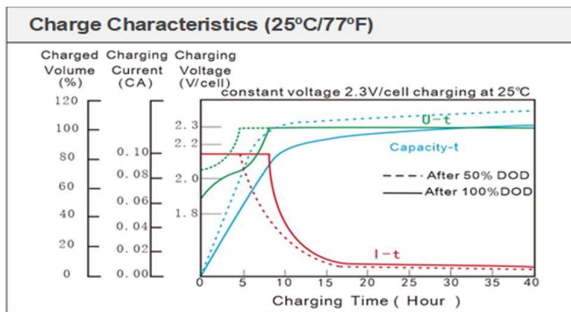
Rated Capacity	
20 hour rate (5.0A)	106.0AH
10 hour rate (10.0A)	101.0AH
5 hour rate (17.0A)	85.9AH
3 hour rate (25.0A)	75.8AH
1 hour rate (60.0A)	60.6AH
Capacity affected by Temperature	
40°C(104°F)	103%
25°C(77°F)	100%
0°C(32°F)	86%

Cycle Application
1. Limit initial current less than 25.0A.
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 0.60A 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 25.0A 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.

## Battery Discharge Table:

End Voltage (V)	Minutes (M)				Hours (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>												
1.60	245	194	109	94	64	51	42.7	26.3	18.3	12.5	10.51	5.46
1.65	234	185	104	91	63	49	41.6	25.9	17.9	12.3	10.40	5.41
1.70	223	176	99	88	61	48	40.6	25.3	17.5	12.1	10.30	5.35
1.75	212	168	94	85	60	47	39.7	24.8	17.2	11.8	10.20	5.30
1.80	202	160	90	82	59	46	38.7	24.2	16.7	11.6	10.10	5.25
<b>Constant Power Discharge Data Sheet (@25°C) Unit: W</b>												
1.60	456.83	378.50	234.33	164.17	136.50	99.67	74.50	55.50	35.83	27.17	21.00	11.30
1.65	435.17	360.50	223.00	158.50	133.33	97.17	72.67	54.17	35.00	26.67	20.83	11.20
1.70	414.50	343.33	212.50	153.33	130.00	94.83	70.83	52.83	34.17	26.17	20.67	11.08
1.75	394.67	327.00	202.33	148.17	126.83	92.33	69.17	51.50	33.33	25.67	20.33	10.97
1.80	375.83	311.50	192.67	143.17	123.67	90.17	67.50	50.33	32.50	25.00	20.17	10.85

## Performance Characteristic:



### Note:

The battery should be charged within 6 months of storage, Otherwise, permanent loss of capacity might occur as a result of sulfation. Above Information is subject to change. For further queries, please contact [info@swiftbatteries.com](mailto:info@swiftbatteries.com)

