

VRLA AGM Battery

BT-HSE-55-12 [12V55Ah]



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, approx 3% of capacity per month at 20°C (average)
- Wide operating temperature range from 0°C~40°C
- Lead-Aluminum-Calcium-Tin alloy high energy, prevent corrosion

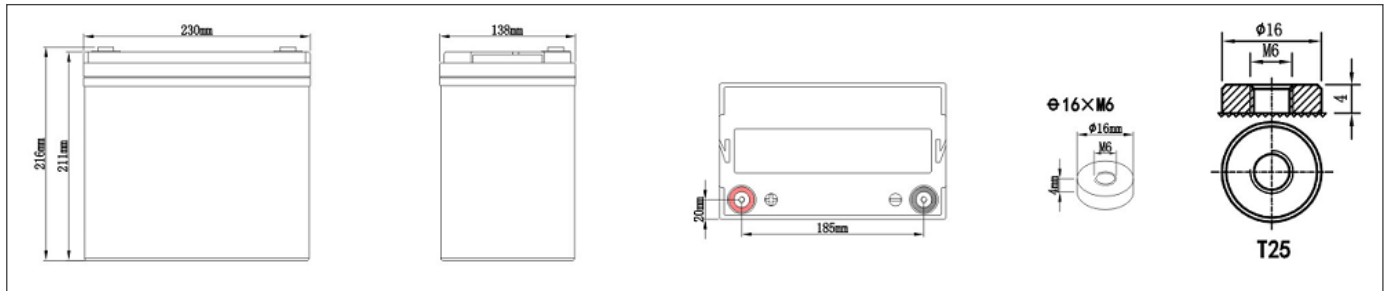
Application

- 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 (10HR)	Dimension				Weight ±3%	Internal Resistance (In full charge status)	Standard Terminals
		L	W	H	TH			
12V	55AH	230±3mm	138±2mm	211±3mm	216±3mm	Approx 16.5kg (36.4lbs)	≈ 6.5mΩ	T25 (standard)

Dimensions



Constant-Voltage Charge

Rated Capacity	
20 hours rate (2.75A)	58.5AH
10 hours rate (5.5A)	55.5AH
5 hours rate (9.35A)	46.8AH
3 hours rate (13.75A)	41.3AH
1 hour rate (30.25A)	30.5AH
Capacity affected by Temperature	
40°C(104°F)	103%
25°C(77°F)	100%
0°C(32°F)	86%

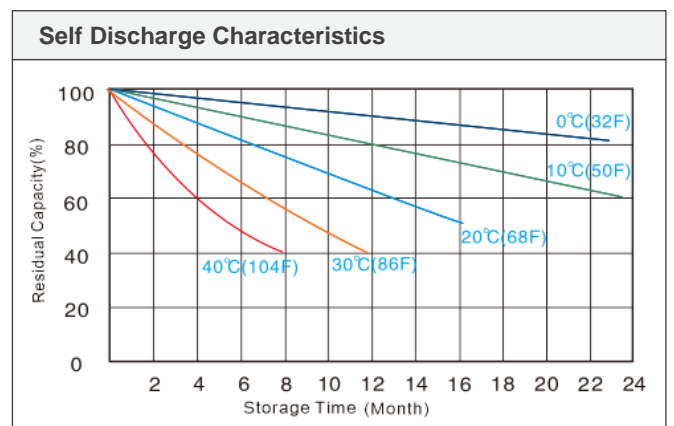
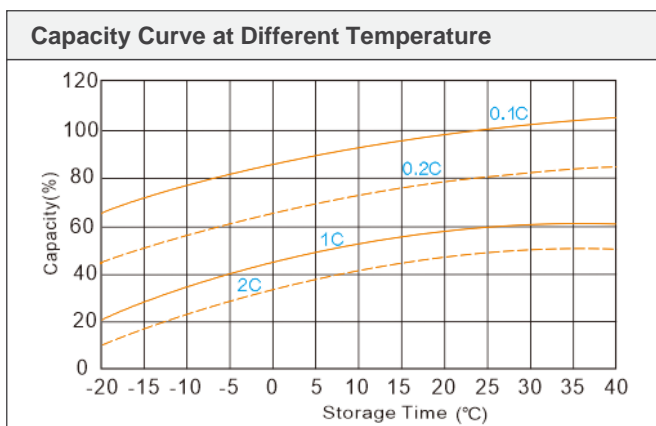
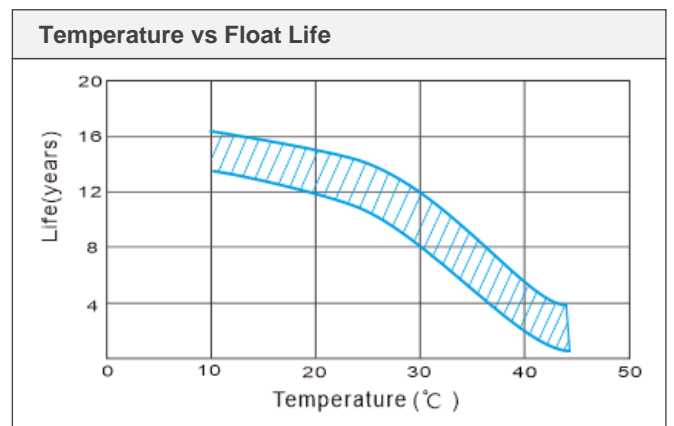
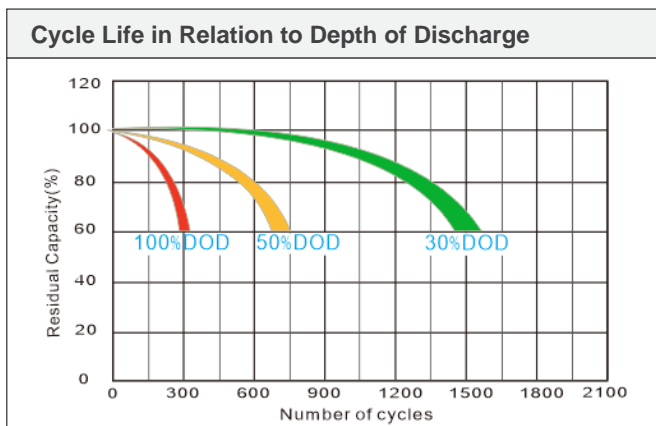
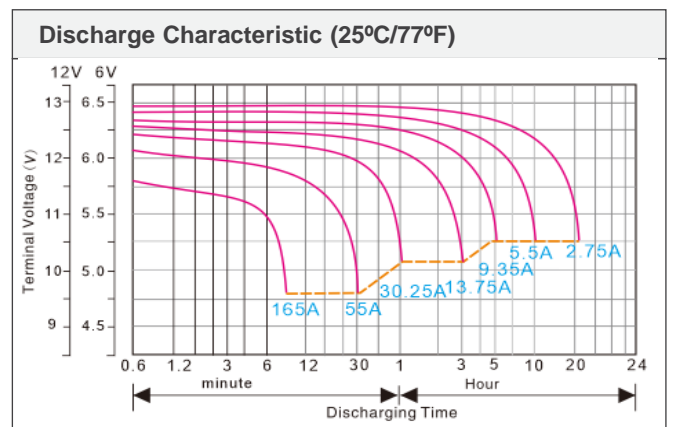
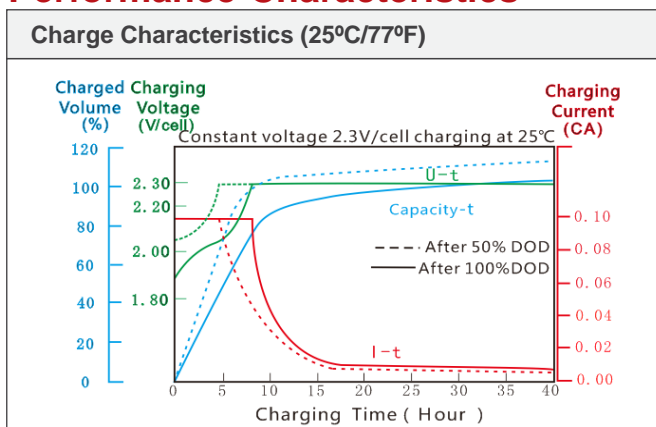
Cycle Application	
1.	Limit initial current less than 13.75A.
2.	Charge until battery voltage (under charge) reaches 14.1V to 14.4V at 25°C(77°F).
3.	Hold at 14.1V to 14.4V until current drop to under 0.33A for at least 3 hours.
4.	Temperature compensation coefficient of charging voltage is -30mV/°C.
Standby Service	
1.	Hold battery across constant voltage source of 13.6 to 13.8 volts with current limit 13.75A 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
Constant Current Discharge Data Sheet (@25°C) Unit: A												
9.6V	134	106	59.5	51.1	35.2	27.9	23.3	14.7	10.0	6.8	5.72	3.02
9.9V	127	101	56.7	49.4	34.4	27.2	22.7	14.3	9.7	6.7	5.67	2.99
10.2V	121	96	54.0	47.7	33.5	26.6	22.1	14.0	9.5	6.6	5.61	2.96
10.5V	116	91	51.4	46.1	32.7	25.9	21.6	13.6	9.2	6.5	5.56	2.93
10.8V	110	87	49.0	44.6	31.9	25.3	21.1	13.3	9.0	6.3	5.50	2.90
Constant Power Discharge Data Sheet (@25°C) Unit: W												
9.6V	1507	1273	812	586	451	332	246	183	118	89.6	69.4	37.3
9.9V	1435	1212	773	567	440	324	240	178	115	87.9	68.7	36.9
10.2V	1367	1154	736	547	430	316	235	174	112	86.2	68.0	36.6
10.5V	1302	1099	701	529	419	309	229	170	110	84.5	67.3	36.2
10.8V	1240	1047	668	511	409	301	223	166	107	82.8	66.7	35.8

Performance Characteristics



FACTORY ADDRESS:
 Road No.6, An Phuoc IP, An Phuoc Ward, Long Thanh District,
 Dong Nai Province, Vietnam

☎ 0084-97836669
 📠 0084-2513686918

✉ sales@saite.vn
 🌐 www.saite.vn