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SAITE POWER SOURCE (VIETNAM) CO., LTD.

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VRLA AGM Battery

BT-HSE-75-12 [12V75Ah]



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 Aluminum calcium Tin alloy high energy, prevent corrosion

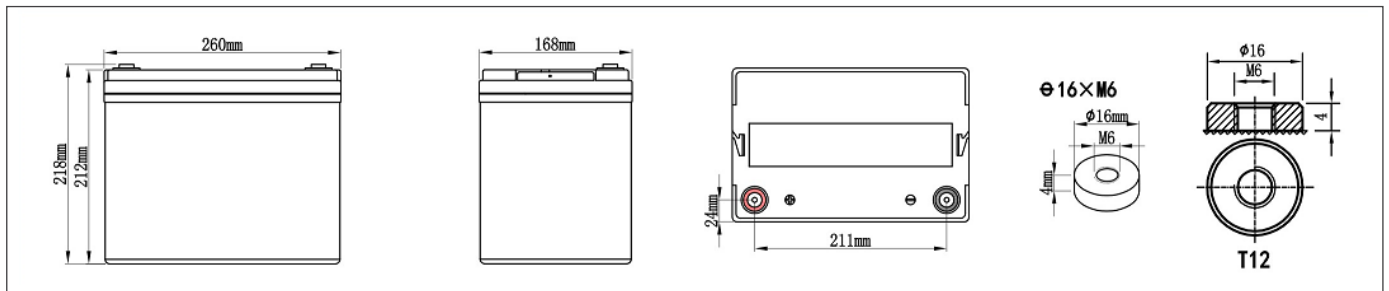
Application

- 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	75AH	260±3mm	168±2mm	212±3mm	218±3mm	Approx 23.2kg (51.1lbs)	≈5.50mΩ	T12 (standard)

Dimensions



Constant-Voltage Charge

Rated Capacity	
20 hour rate (3.75A)	80.0AH
10 hour rate (7.50A)	75.0AH
5 hour rate (12.75A)	64.0AH
3 hour rate (18.75A)	56.5AH
1 hour rate (45.0A)	45.0AH
Capacity affected by Temperature	
40°C(104°F)	103%
25°C(77°F)	100%
0°C(32°F)	86%

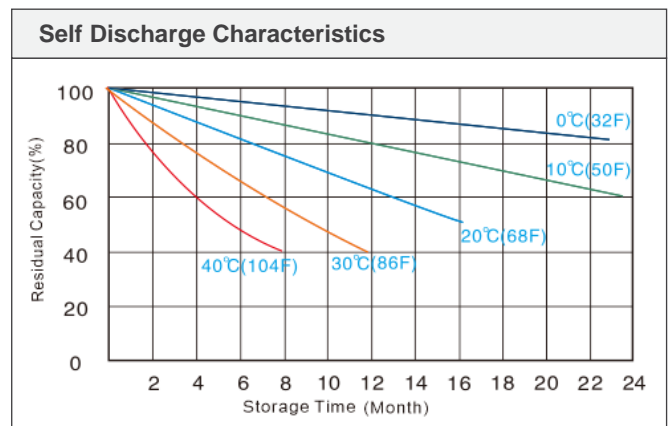
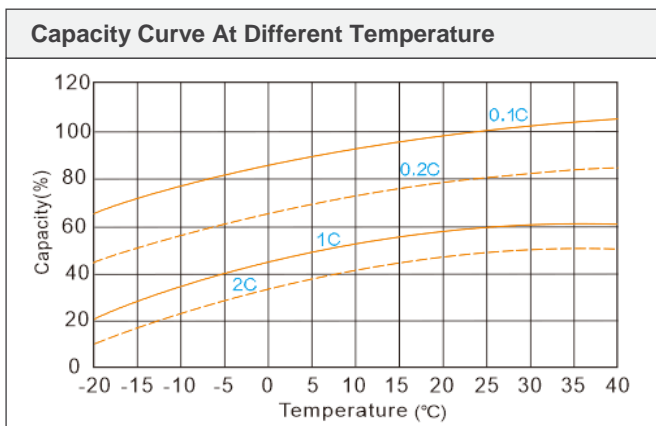
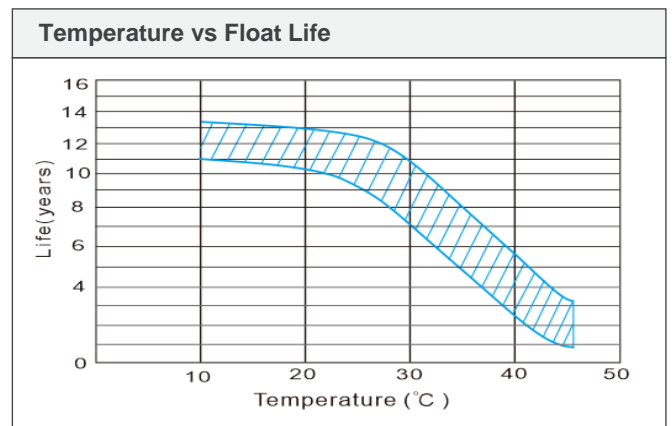
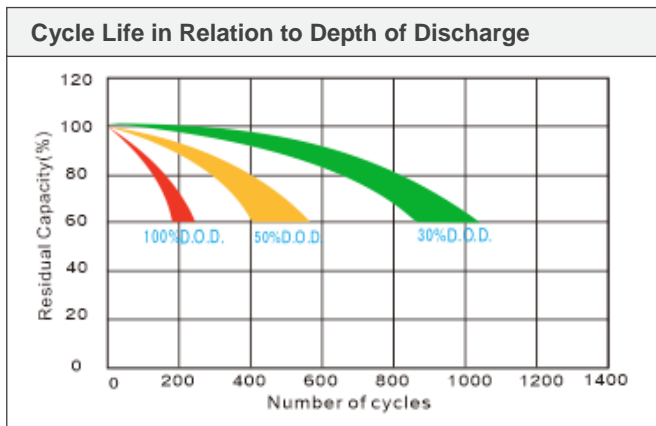
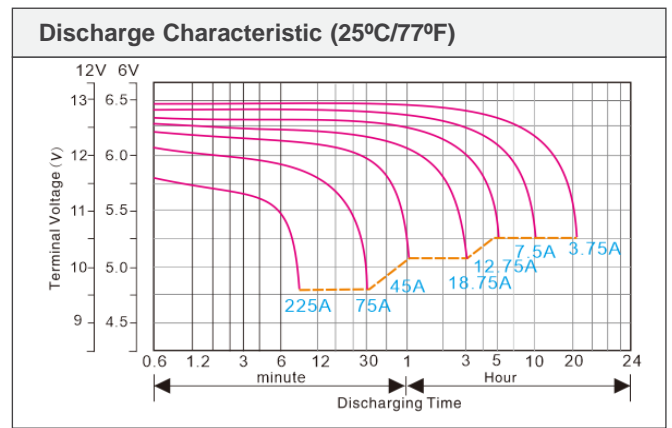
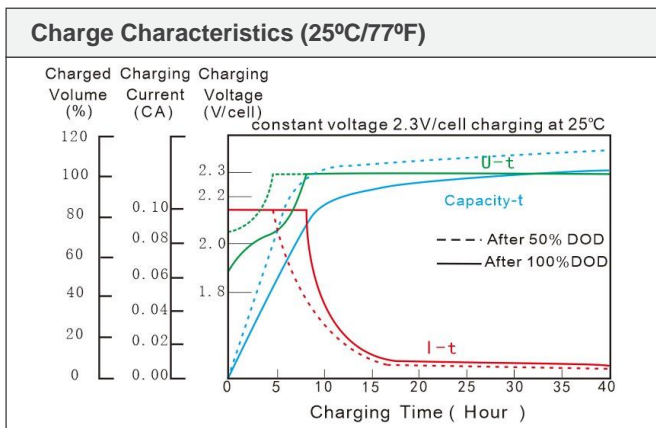
Cycle Application	
1.	Limit initial current less than 18.80A.
2.	Charge until battery voltage (under charge) reaches 14.1V to 14.4V at 25°C(77°F).
3.	Hold at 14.1V to 14.4V until current drop to under 0.45A for at least 3 hours.
4.	Temperature compensation coefficient of charging voltage is -30mV/°C.
Standby Service	
1.	Hold battery across constant voltage source of 13.6 to 13.8 volts with current limit 18.80A 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 (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 25°C)													
10.20	236	180	136	71.9	66.8	46.9	37.0	31.0	19.42	13.49	9.60	7.95	4.24
10.50	210	165	127	69.0	63.8	45.0	35.6	29.9	18.80	12.88	9.08	7.80	4.16
10.80	195	150	119	66.7	60.8	43.1	34.1	28.7	18.14	12.33	8.63	7.58	4.04
Constant Power Discharge Data Sheet (Watt at 25°C)													
10.20	2348	1988	1443	899	675	587	428	322	240	155	115	97.5	51.1
10.50	2258	1688	1296	878	660	578	421	311	232	150	113	94.5	49.5
10.80	2100	1575	1237	859	638	551	402	301	224	145	112	90.0	48.4

Performance Characteristics



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