

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

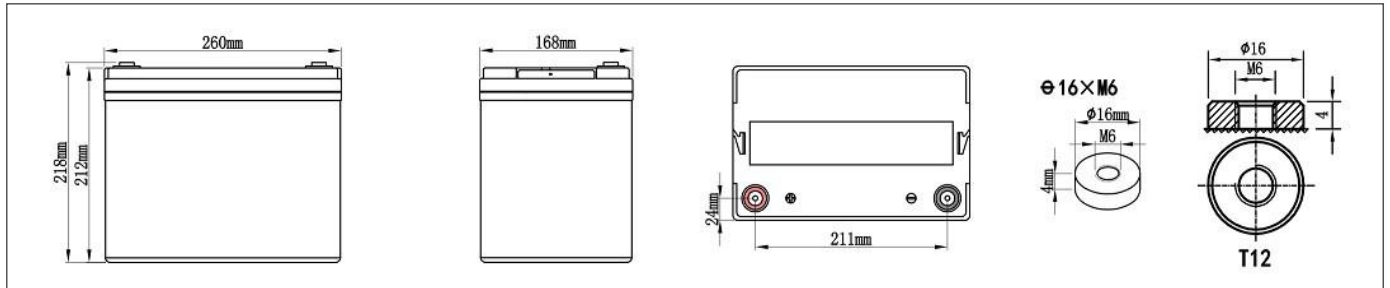
Application

- DC power supply
- UPS/EPS power supply
- Electrical devices & instruments
- Security and fire alarm systems
- Telecom stations and power stations
- Medical 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	75AH	260±2mm	169±2mm	211±2mm	218±2mm	Approx 23.3kg (51.36lbs)	≤ 6.10 mΩ	T12 (standard)

Dimensions



Constant-Voltage Charge

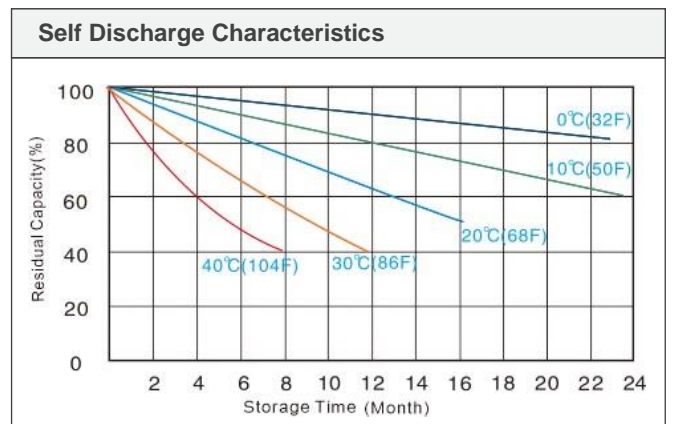
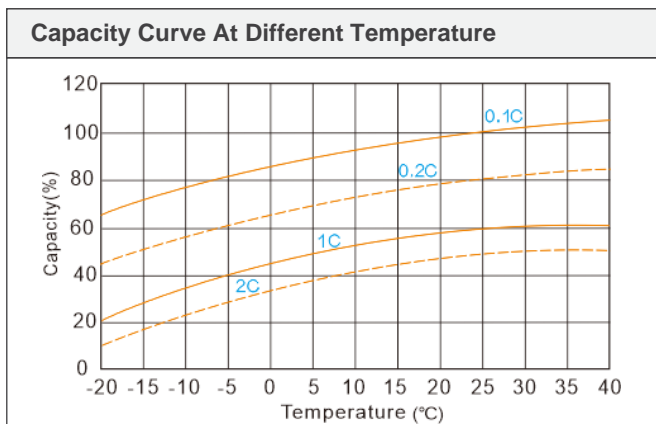
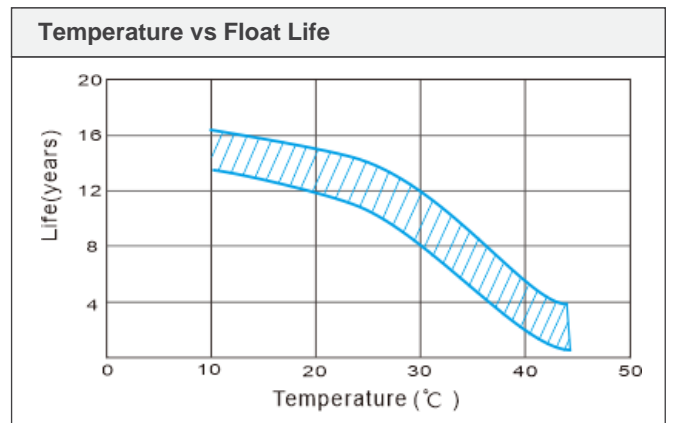
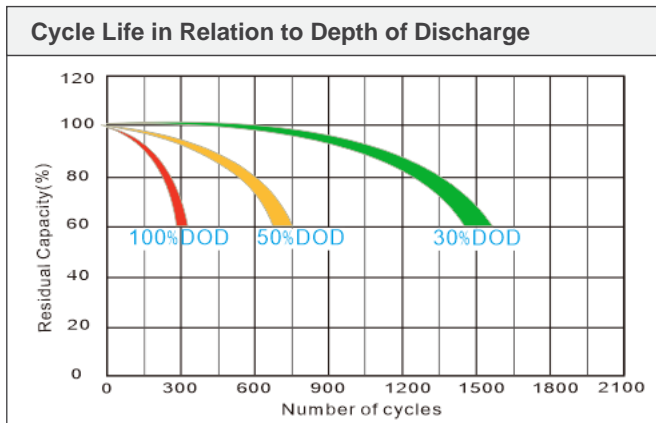
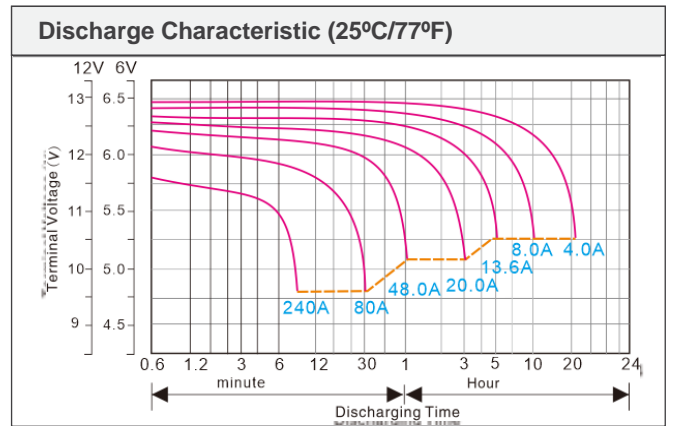
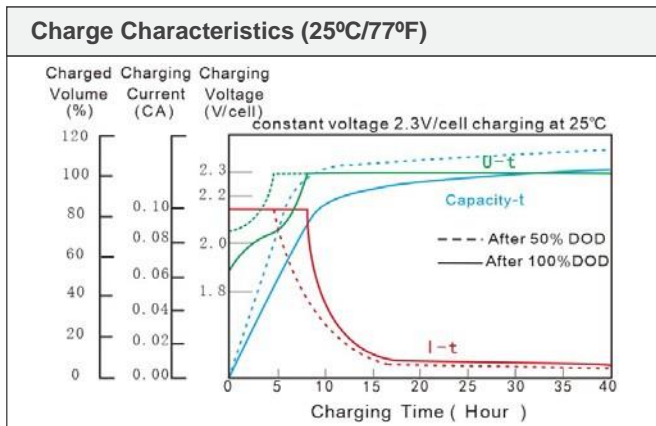
Rated Capacity	
20 hour rate (3.9A)	78.0AH
10 hour rate (7.5A)	75.0AH
5 hour rate (13.6A)	64.6AH
3 hour rate (20.0A)	60.0AH
1 hour rate (48.0A)	48.0AH
Capacity affected by Temperature	
40°C(104°F)	103%
25°C(77°F)	100%
0°C(32°F)	86%

Cycle Application
1. Maximum charging current min 22.5A
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 under0.48A 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 22.5A 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.
Maximum Discharge Current (5s): 700A
Short Circuit Current: 1720A

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	4.14
10.50	210	165	127	69.0	63.8	45.0	35.6	29.9	18.80	12.88	9.08	7.80	4.06
10.80	195	150	119	66.7	60.8	43.1	34.1	28.7	18.14	12.33	8.63	7.50	3.90
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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