



SAITE
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VRLA AGM Battery

BT-HSE-40-12 [12V40Ah]



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

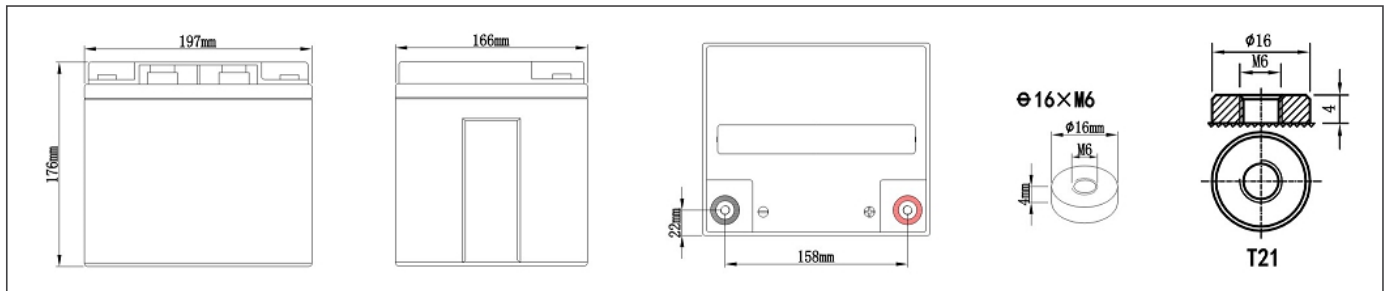
Application

- 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	40AH	197±2mm	166±2mm	176±2mm	176±2mm	Approx 12.0kg (26.45lbs)	≈8.6mΩ	T21 (standard)

Dimensions



Constant-Voltage Charge

Rated Capacity	
20 hour rate (2.0A)	42.5AH
10 hour rate (4.0A)	40.0AH
5 hour rate (6.68A)	33.5AH
3 hour rate (10.0A)	30.0AH
1 hour rate (24.0A)	24.0AH
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 10A.
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 0.24A 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 10A 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	121.5	92.3	69.5	36.94	34.21	24.04	18.98	15.90	9.96	6.92	4.92	4.08	2.18
10.50	107.3	84.6	65.1	35.43	32.69	23.08	18.24	15.31	9.64	6.61	4.66	4.00	2.14
10.80	100.0	76.9	60.8	34.21	31.17	22.12	17.49	14.73	9.30	6.33	4.42	3.89	2.07
Constant Power Discharge Data Sheet (Watt at 25°C)													
10.20	1203	1019	740	461	346	301	220	165	123	79.4	58.8	50.00	26.19
10.50	1158	865	664	450	338	297	216	160	119	76.9	58.1	48.48	25.38
10.80	1077	808	635	440	327	282	206	154	115	74.2	57.3	46.15	24.81

Performance Characteristics

