

VRLA AGM Battery

BT-HSE-150-12 [12V150Ah]



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

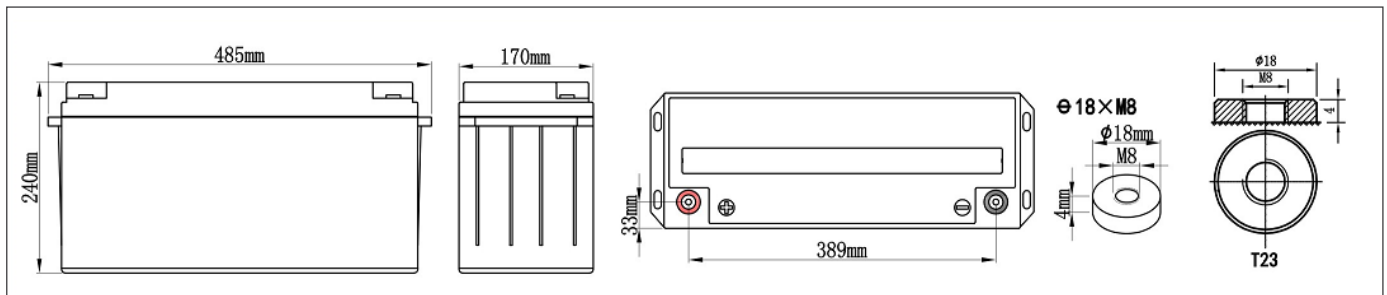
Application

- DC power supply
- UPS/EPS power supply
- Electrical devices & instruments
- Security and fire alarm systems
- Telecom stations and power station
- 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	150AH	485±3mm	170±2mm	240±3mm	240±3mm	Approx 43.5kg (95.70lbs)	≤ 3.60mΩ	T23 (standard)

Dimensions



Constant-Voltage Charge

Rated Capacity	
20 hours rate (7.7A/1.80V)	154.0AH
10 hours rate (15A/1.80V)	150.0AH
5 hours rate (25.5A/1.75V)	127.5AH
3 hours rate (37.5A/1.75V)	114.0AH
1 hour rate (90.0A/1.70V)	90.0AH
Capacity affected by Temperature	
40°C (104°F)	103%
25°C (77°F)	100%
0°C (32°F)	86%
Operating Temperature Range	
Discharge	-20~60°C
Charge	-10~60°C
Storage	-20~60°C

Cycle Application	
1.	Limit initial current less than 37.5A.
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 under 0.90A 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 37.50A 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.
Max. Discharge Current 77°F (25°C) : 950A (5s)	
Short Circuit Current : 2800A	
Self-Discharge : 2.5% of capacity declined per month at 20°C (average)	

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	365	288	162	139	95	75	63.2	40.0	27.2	18.7	15.74	8.17
9.9V	347	274	154	134	93	73	61.7	39.0	26.5	18.3	15.59	8.09
10.2V	331	261	147	130	90	72	60.2	38.0	25.9	17.9	15.43	8.01
10.5V	315	249	140	125	88	70	58.7	37.5	25.5	17.6	15.28	7.93
10.8V	300	237	133	121	86	68	57.3	36.2	24.6	17.2	15.00	7.70
Constant Power Discharge Data Sheet (@25°C) Unit: W												
9.6V	3902	3416	2088	1463	1218	887	664	496	319	242.5	187.3	100.7
9.9V	3716	3253	1989	1414	1188	866	648	484	311	237.7	185.5	99.7
10.2V	3539	3098	1894	1366	1159	845	632	472	304	233.0	183.6	98.7
10.5V	3371	2951	1804	1320	1131	824	617	460	296	228.5	181.8	97.8
10.8V	3210	2810	1718	1275	1103	804	602	449	289	224.0	180.0	96.8

Performance Characteristics

