MinuteBank

VRLA AGM Battery

BT-HSE-150-12 [12V150Ah]

General Features

- Designed floating charging service life: 12 years (25ºC)
- Sealed and maintenance free operation
- Safety valve installation for explosion proof
- Low self-discharge characteristic
- Wide operating temperature range from 0ºC~40ºC
- Lead Aluminum calcium Tin alloy high energy, prevent corrosion

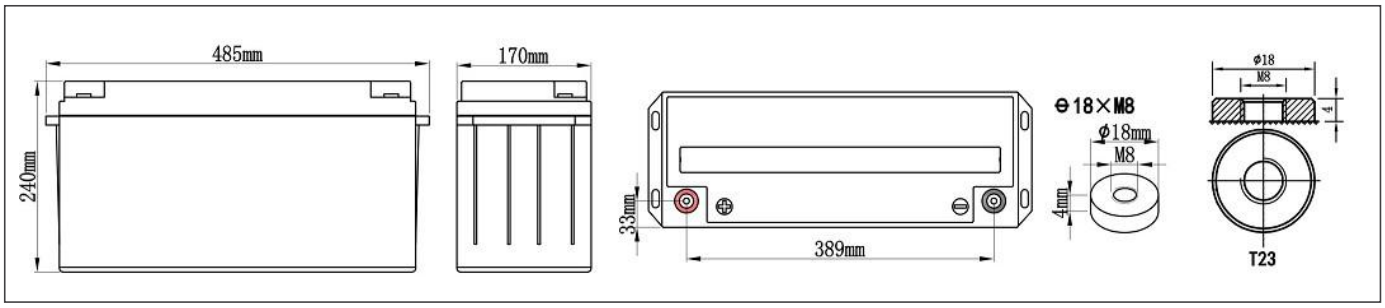
Application

- 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	150AH	485±3mm	170±2mm	240±3mm	240±3mm	Approx 44.0kg (97.00lbs)	≈3.20 mΩ	T23 (standard)

Dimensions



Battery Discharge Table

End Voltage (V)	Minute (M)						Hour (H)									
	5	10	15	20	30	45	1	1.5	2	3	4	5	6	8	10	20
Constant Current Discharge Data Sheet (Amperes at 25ºC)																
10.20	472	360	271	237	144	133	93.6	73.9	61.9	38.8	33.85	26.95	24.44	19.17	15.88	8.03
10.50	419	330	253	228	138	127	89.9	71.0	59.7	37.5	33.11	25.73	23.24	18.13	15.58	7.95
10.80	389	300	237	222	133	121	86.1	68.1	57.3	36.2	32.21	24.62	22.18	17.23	15.13	7.85
Constant Power Discharge Data Sheet (Watt at 25ºC)																
10.20	4695	3975	2861	2550	1797	1350	1173	855	644	480	393	310	286	230	195	102.2
10.50	4515	3375	2568	2490	1756	1320	1155	842	623	465	381	300	279	227	189	99.0
10.80	4200	3150	2452	2453	1718	1275	1103	804	602	449	368	289	272	224	180	96.8

⚠ NOTE : The battery should be charged within 6 months of storage, Otherwise, permanent loss of capacity might occur as a result of sulfation

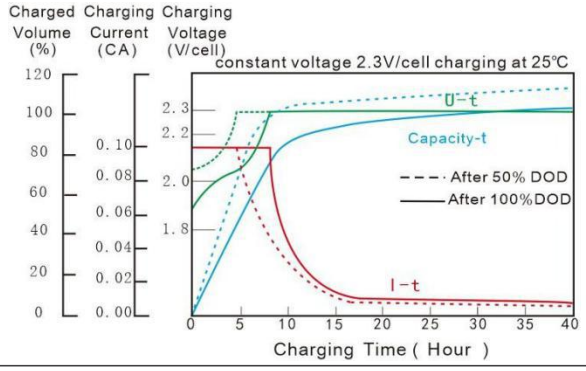
Constant-Voltage Charge

Rated Capacity	
20 hour rate (7.5A)	154.5AH
10 hour rate (15.0A)	151.0AH
5 hour rate (25.5A)	127.5AH
3 hour rate (37.5A)	114.0AH
1 hour rate (90.0A)	90.0AH
Capacity affected by Temperature	
40ºC(104ºF)	103%
25ºC(77ºF)	100%
0ºC(32ºF)	86%

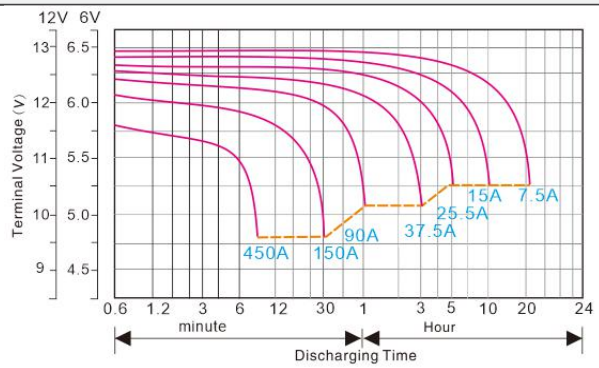
Cycle Application
1. Limit initial current less than 37.5A.
2. Charge until battery voltage (under charge) reaches 14.1V to 14.4V at 25ºC(77ºF).
3. Hold at 14.1V to 14.4V until current drop to under0.90A for at least 3 hours.
4. Temperature compensation coefficient of charging voltage is -30mV/ºC.
Standby Service
1. Hold battery across constant voltage source of 13.6 to 13.8 volts with current limit*37.50*A 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/ºC.

Performance Characteristics

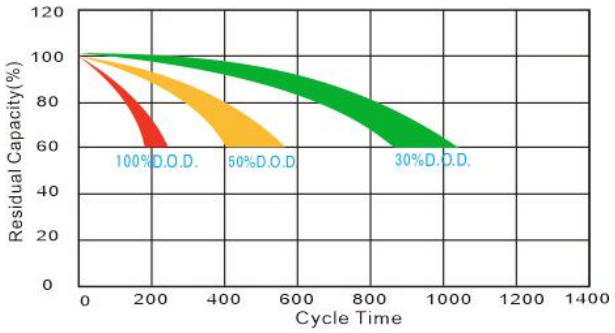
Charge Characteristics (25ºC/77ºF)



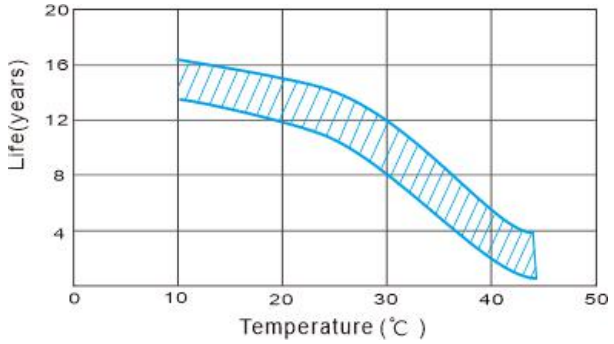
Discharge Characteristic (25ºC/77ºF)



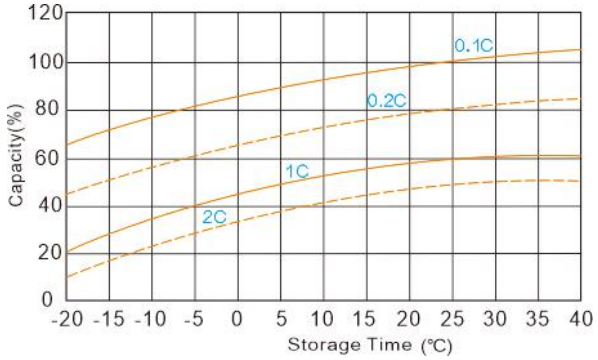
Cycle Life in Relation to Depth of Discharge



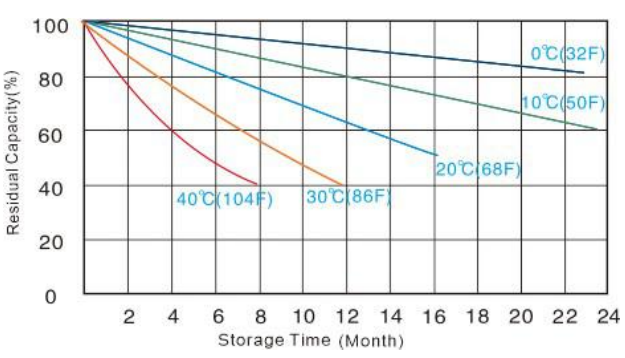
Temperature vs Float Life



Capacity Curve At Different Temperature



Self Discharge Characteristics



MinuteBank