

VRLA AGM Battery

BT-HSE-45-12 [12V45Ah]



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

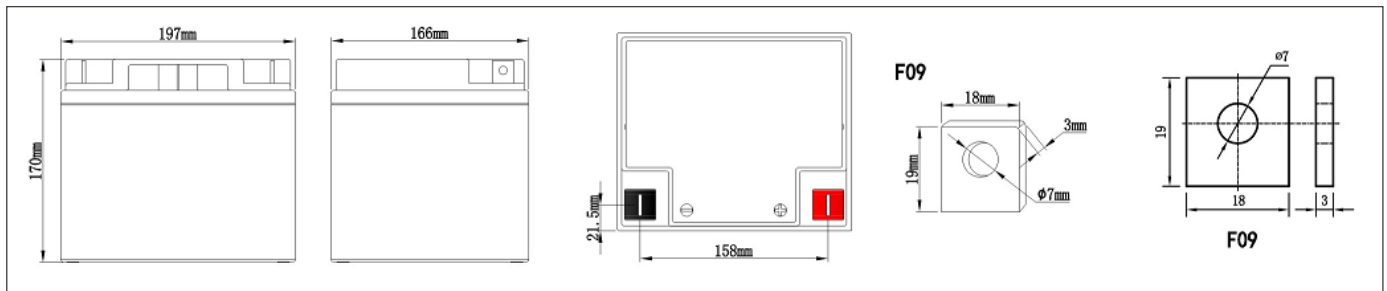
Application

- DC power supply
- Medical equipments
- UPS/EPS power supply
- Telecom stations and power stations

Physical Specifications

Nominal Voltage	Nominal Capacity (10HR)	Dimension				Weight ±2%	Internal Resistance (In full charge status)	Standard Terminals
		L	W	H	TH			
12V	45AH	197±2mm	166±2mm	170±2mm	170±2mm	Approx 13.5kg (29.8lbs)	≤ 8 mΩ	F09 (standard)

Dimensions



Constant-Voltage Charge

Rated Capacity	
20 hour rate (2.25A)	45.0AH
10 hour rate (4.2A)	42.5AH
5 hour rate (7.14A)	36.0AH
3 hour rate (10.5A)	31.7AH
1 hour rate (25.2A)	25.4AH
Capacity affected by Temperature	
40°C(104°F)	103%
25°C(77°F)	100%
0°C(32°F)	86%

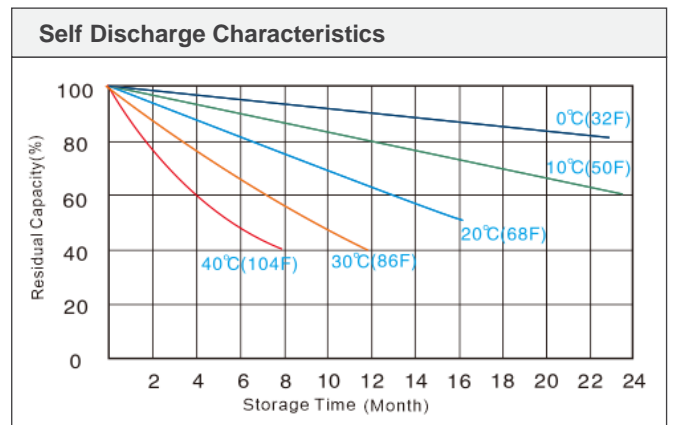
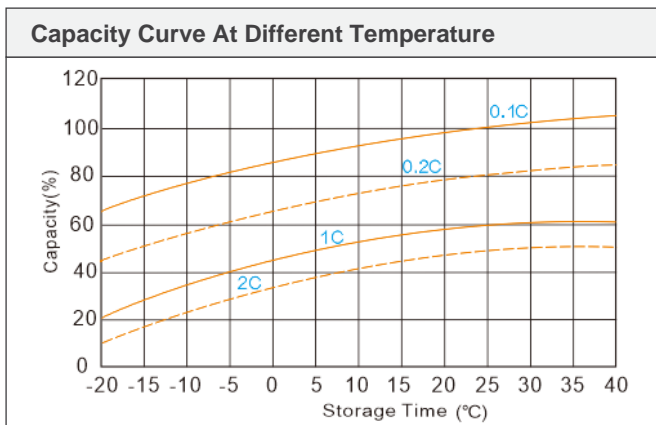
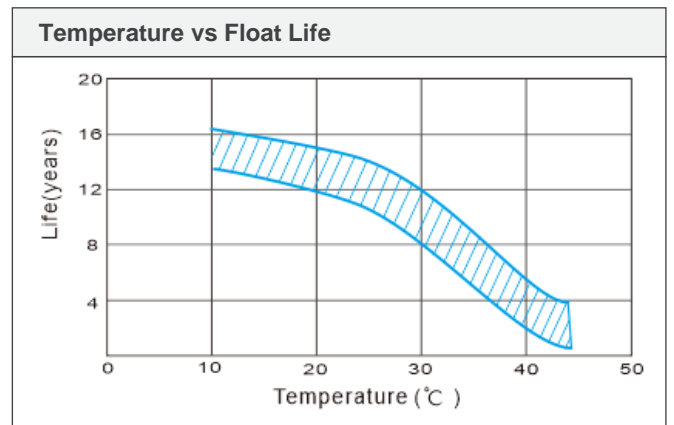
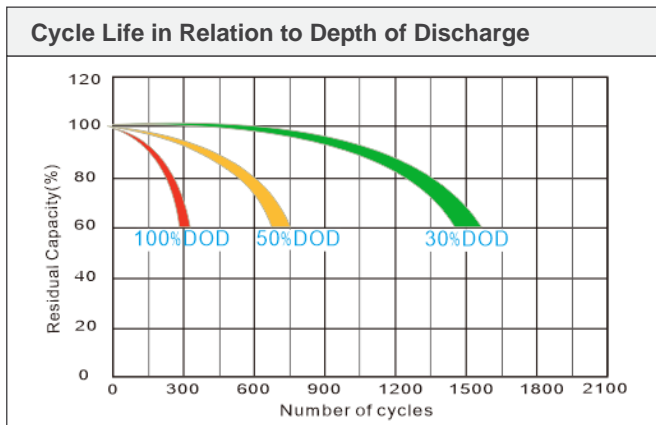
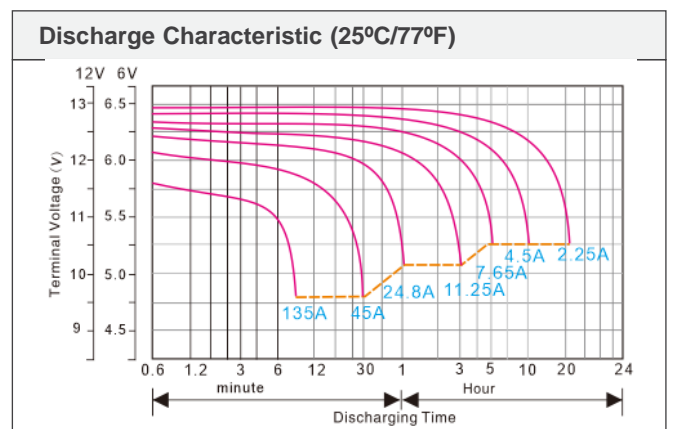
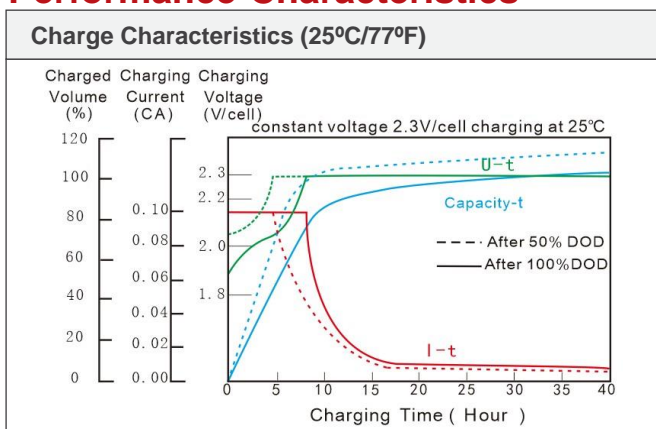
Cycle Application
1. Limit initial current less than 10.5A.
2. Charge until battery voltage (under charge) reaches 14.1V to 14.4V at 25°C(77°F).
3. Hold at 14.1V to 14.4V until current drop to under 0.252A for at least 3 hours.
4. Temperature compensation coefficient of charging voltage is -30mV/°C.
Standby Service
1. Hold battery across constant voltage source of 13.6 to 13.8 volts with current limit 10.5A 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.

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)							
	10	15	30	45	1	1.5	2	3	5	8	10	20
Constant Current Discharge Data Sheet (@25°C) Unit: A												
9.6V	103	82	45.9	39.5	26.8	21.2	18.0	11.0	7.68	5.26	4.41	2.29
9.9V	98	78	43.7	38.2	26.3	20.8	17.5	10.9	7.50	5.17	4.37	2.27
10.2V	94	74	41.6	36.9	25.5	20.4	17.1	10.6	7.34	5.09	4.32	2.25
10.5V	89	71	39.5	35.7	25.0	19.9	16.7	10.4	7.21	4.96	4.28	2.23
10.8V	85	67	37.8	34.3	24.6	19.5	16.3	10.2	7.00	4.88	4.24	2.20
Constant Power Discharge Data Sheet (@25°C) Unit: W												
9.6V	1151	954	591	414	344	251	188	140	90	69	53.0	28.5
9.9V	1097	909	563	400	336	244	183	136	88	67	52.4	28.2
10.2V	1044	866	535	387	327	238	179	133	86	66	51.9	27.9
10.5V	995	824	510	374	319	233	175	130	84	65	51.4	27.6
10.8V	947	785	486	361	312	227	170	127	82	64	50.9	27.4

Performance Characteristics



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