

VRLA AGM Battery

BT-HSE-80-12 [12V80Ah]



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

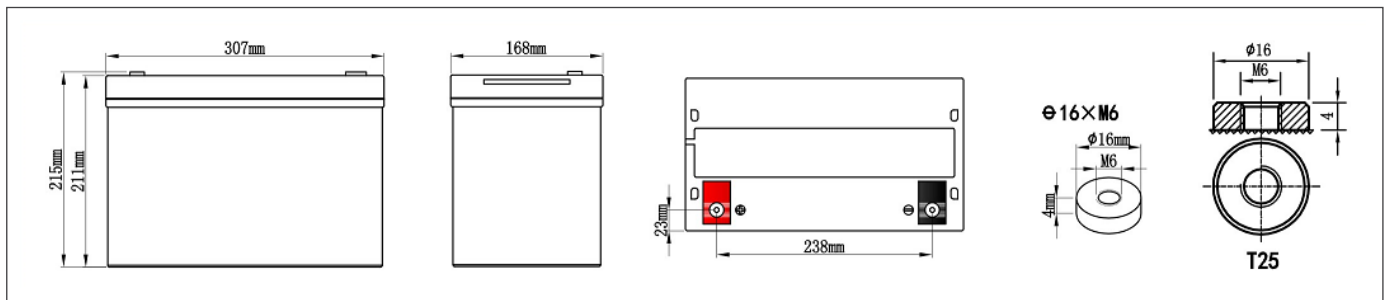
Application

- 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	80AH	307±3mm	168±2mm	211±3mm	215±3mm	Approx 25.50kg (56.22lbs)	≤4.8 mΩ	T25 (standard)

Dimensions



Constant-Voltage Charge

Rated Capacity	
20 hour rate (4.0A)	84.5AH
10 hour rate (8.0A)	80.0AH
5 hour rate (13.6A)	68.0AH
3 hour rate (20.0A)	60.7AH
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%

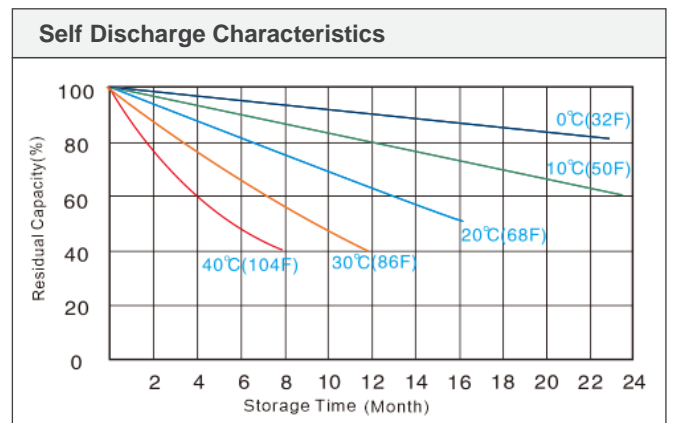
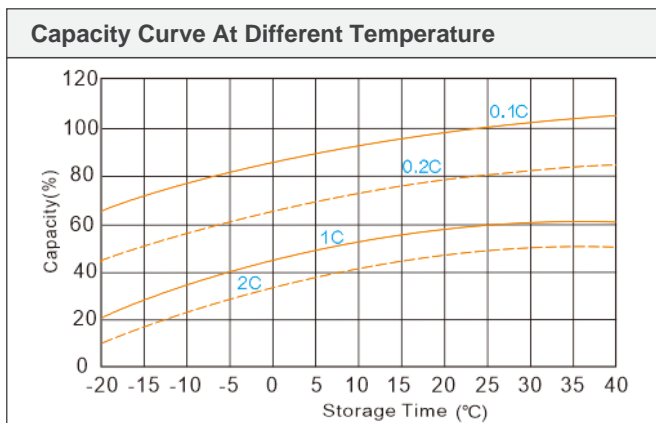
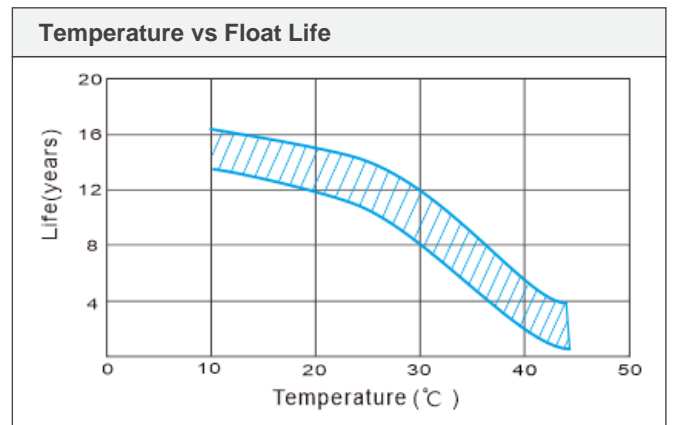
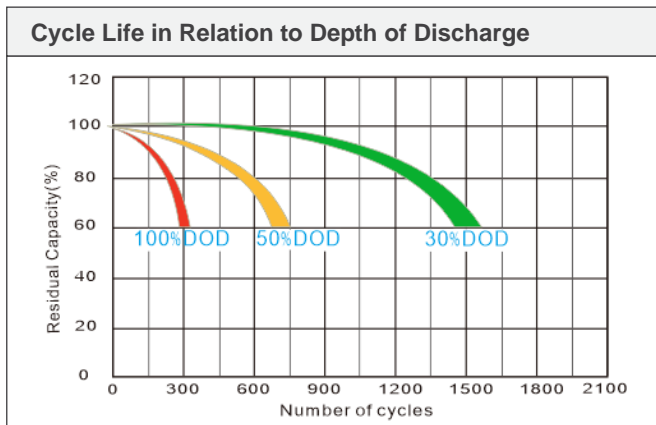
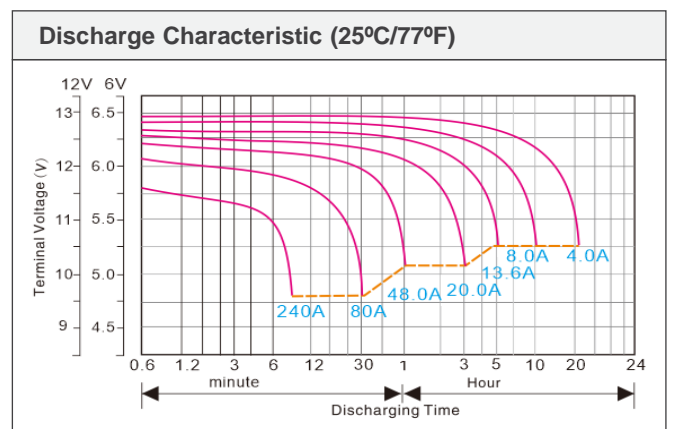
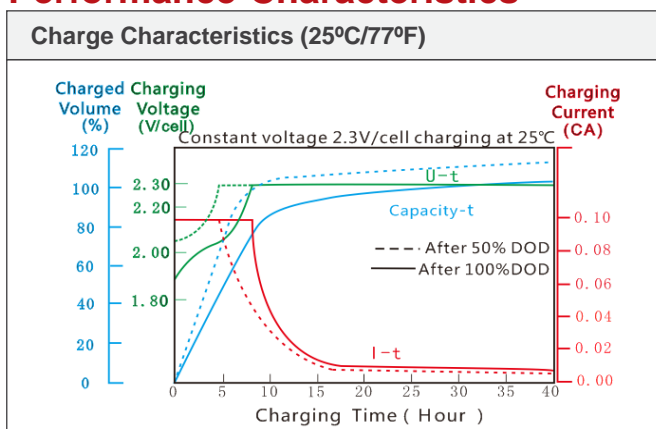
Cycle Application	
1.	Limit initial current less than 20.0A.
2.	Charge until battery voltage (under charge) reaches 14.1V to 14.4V at 25°C(77°F).
3.	Hold at 14.1V to 14.4V until current drop to under 0.48A for at least 3 hours.
4.	Temperature compensation coefficient of charging voltage is -30mV/°C.
Standby Service	
1.	Hold battery across constant voltage source of 13.6 to 13.8 volts with current limit 20.0A 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	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	194	154	86	74	48.0	40.2	33.8	21.0	14.7	9.96	8.32	4.39
10.0V	181	144	80	71	46.3	38.7	32.6	20.2	14.1	9.67	8.20	4.33
10.2V	176	140	78	69	45.7	38.2	32.1	20.0	14.0	9.57	8.16	4.30
10.5V	168	133	75	67	44.6	37.3	31.4	19.5	13.6	9.38	8.08	4.26
10.8V	160	127	71	65	43.5	36.4	30.6	19.0	13.3	9.20	8.00	4.22
Constant Power Discharge Data Sheet (@25°C) Unit: W												
9.6V	2042	1603	1113	780	649	474	354	264	170	129	100	53.7
10.0V	1899	1491	1035	741	625	456	341	254	164	125	98	52.9
10.2V	1852	1454	1010	728	618	451	337	251	162	124	98	52.6
10.5V	1764	1385	962	704	603	440	329	245	158	121	97	52.1
10.8V	1680	1319	916	680	588	429	321	239	154	119	96	51.6

Performance Characteristics



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