

VRLA AGM Battery

12IP12VA[12V12Ah]



General Features

- Designed floating charging service life: 8 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

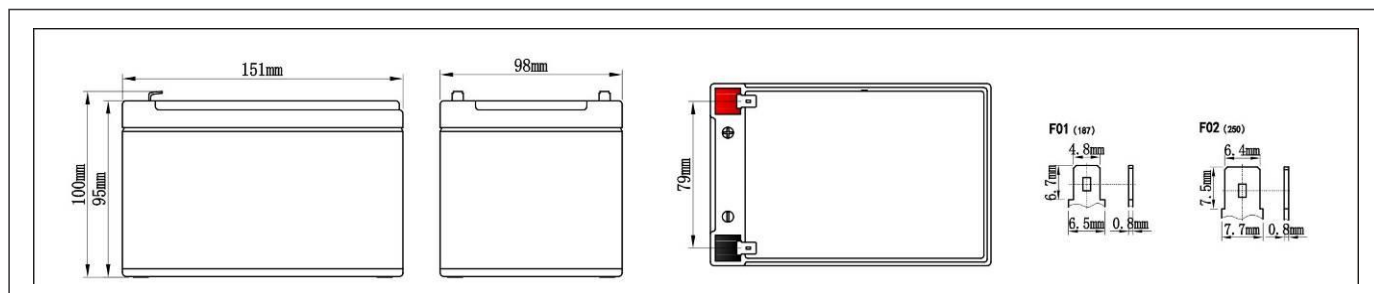
Application

- DC power supply
- Medical equipments
- UPS/EPS power supply
- Emergency lighting systems
- Alarm and security systems

Physical Specifications

Nominal Voltage	Nominal Capacity (20HR)	Dimension				Weight ±2%	Internal Resistance (In full charge status)	Standard Terminals
		L	W	H	TH			
12V	12AH	151±2mm	98±2mm	95±2mm	100±2mm	Approx3.12kg (6.88lbs)	≈23.1 mΩ	F01/F02 (standard)

Dimensions



Constant-Voltage Charge

Rated Capacity	
20 hour rate (0.60A)	12.0AH
10 hour rate (1.20A)	11.3AH
5 hour rate (2.04A)	10.2AH
27 minute rate(12.0A)	5.4AH
7 minute rate (36.0A)	4.2AH
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 3.6A.
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 0.072A 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 13.6to 13.8 volts with current limit 3.6A 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.

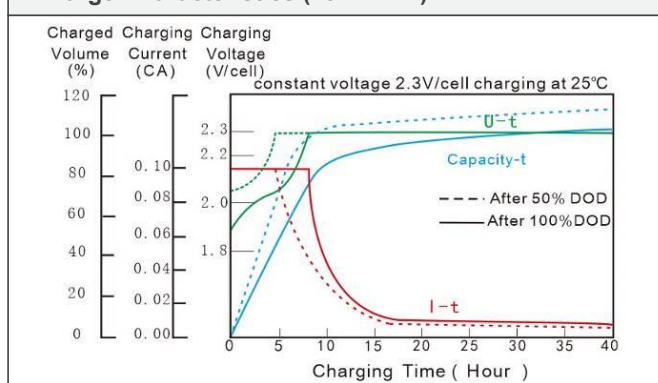
NOTE : The battery should be charged within 6 months of storage, Otherwise, permanent loss of capacity might occur as a result of sulfation

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	31.9	25.0	12.8	8.98	7.56	6.02	4.48	3.38	2.38	1.81	1.17	0.624
9.9V	30.4	23.8	12.1	8.66	7.38	5.88	4.37	3.30	2.32	1.78	1.16	0.618
10.2V	28.9	22.7	11.6	8.38	7.20	5.74	4.26	3.22	2.26	1.74	1.15	0.612
10.5V	28.7	22.4	11.5	8.29	7.15	5.63	4.10	3.12	2.04	1.55	1.14	0.606
10.8V	28.3	22.2	11.3	8.21	7.10	5.52	3.94	3.00	1.98	1.36	1.13	0.600
Constant Power Discharge Data Sheet (@25°C) Unit: W												
9.6V	385	311	176	125	93	71	53.6	38.3	25.2	17.6	13.9	7.51
9.9V	367	296	168	120	91	69	52.3	37.3	24.6	17.3	13.8	7.44
10.2V	349	282	160	116	88	68	51.0	36.4	24.0	16.9	13.7	7.37
10.5V	337	274	156	114	87	67	50.3	35.6	23.8	16.8	13.4	7.26
10.8V	325	265	151	111	86	66	49.6	34.9	23.4	16.6	13.2	7.16

Performance Characteristics

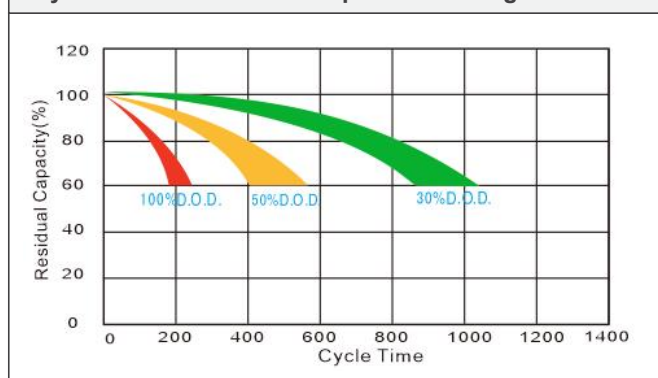
Charge Characteristics (25°C/77°F)



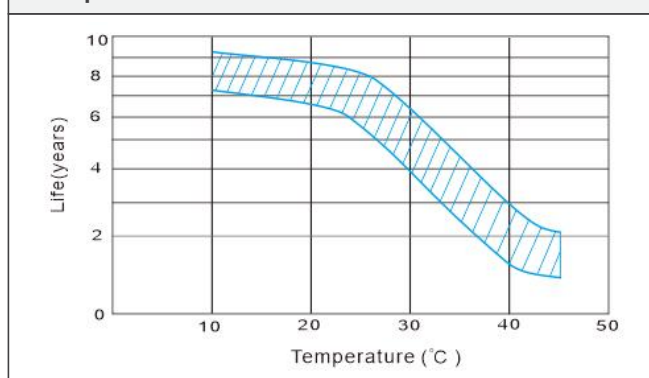
Discharge Characteristic (25°C/77°F)



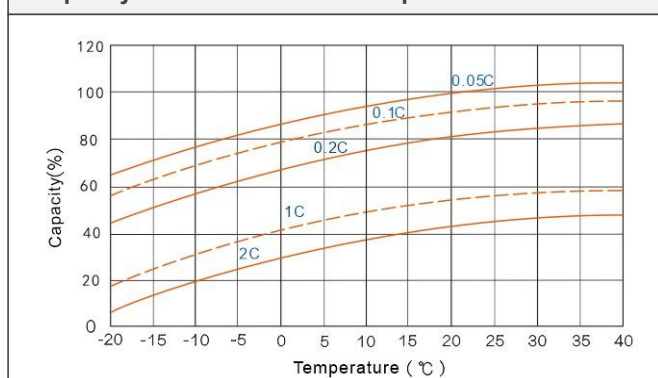
Cycle Life in Relation to Depth of Discharge



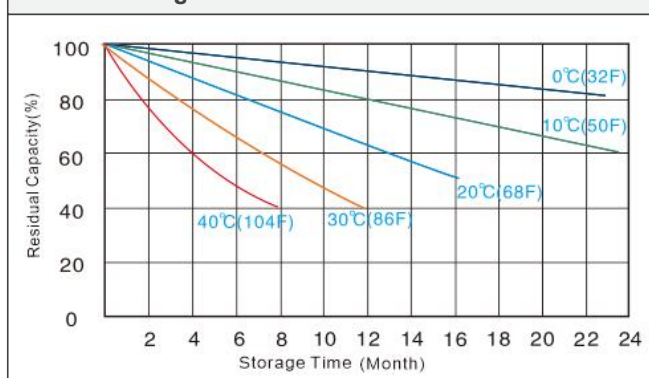
Temperature vs Float Life



Capacity Curve At Different Temperature



Self Discharge Characteristics



☆The datasheet subjects to change without prior notice, please contact with us if have any questions.