Original Infinite Power

VRLA AGM Battery

12IP5VA[12V5.0Ah]

General Features

- Designed floating charging service life: 8 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

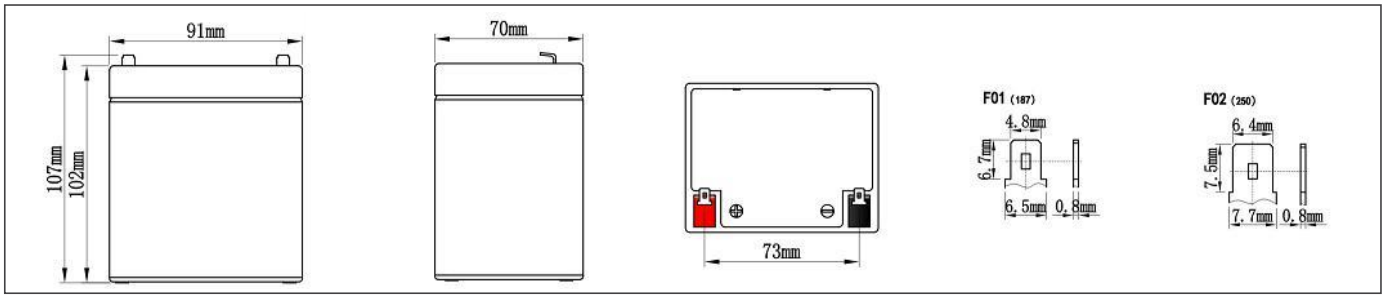
Application

- DC power supply
- 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	5.0AH	91±2mm	70±2mm	102±2mm	107±2mm	Approx1.44kg (3.17lbs)	≈35mΩ	F01/F02 (standard)

Dimensions



Constant-Voltage Charge

Rated Capacity	
20 hour rate (0.25A)	5.00AH
10 hour rate (0.50A)	4.90AH
5 hour rate (0.85A)	4.25AH
27 minute rate(5.0A)	2.25AH
7 minute rate (15.0A)	1.75AH
Capacity affected by Temperature	
40ºC(104ºF)	103%
25ºC(77ºF)	100%
0ºC(32ºF)	86%

Cycle Application
1. Limit initial current less than1.5A.
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 under 0.03A 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 1.5A 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/ºC.

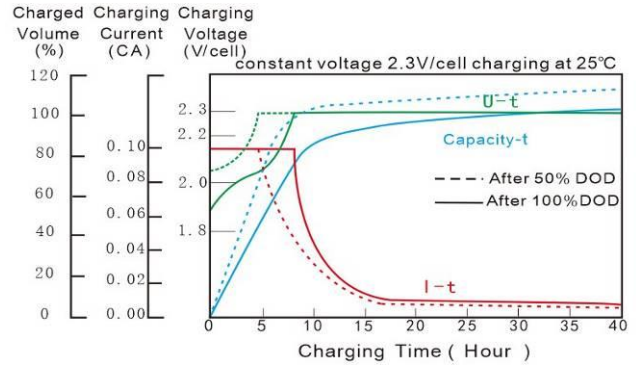
⚠ NOTE : The battery should be charged within 6 months of storage, Otherwise, permanent loss of capacity might occur as a result of sulfation

Battery Discharge Table

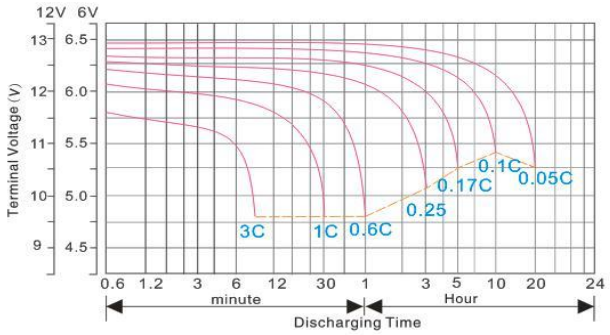
End Voltage (V)	Minute (M)				Hour (H)							
	10	15	30	45	1	1.5	2	3	5	8	10	20
Constant Current Discharge Data Sheet (@25ºC) Unit: A												
9.6V	14.1	11.3	5.78	4.22	3.11	2.54	1.94	1.45	0.914	0.607	0.510	0.270
9.9V	13.5	10.7	5.50	4.08	3.04	2.47	1.90	1.42	0.892	0.595	0.505	0.268
10.2V	12.8	10.2	5.24	3.94	2.96	2.41	1.85	1.38	0.870	0.583	0.500	0.265
10.5V	12.6	9.99	5.09	3.85	2.95	2.38	1.80	1.35	0.850	0.577	0.495	0.263
10.8V	12.3	9.71	4.90	3.68	2.92	2.32	1.71	1.30	0.843	0.572	0.490	0.260
Constant Power Discharge Data Sheet (@25ºC) Unit: W												
9.6V	167	135	76.2	54.0	40.2	30.9	23.2	16.6	10.9	7.62	6.05	3.26
9.9V	159	128	72.5	52.1	39.3	30.1	22.7	16.2	10.7	7.47	5.99	3.22
10.2V	151	122	69.1	50.4	38.3	29.4	22.1	15.8	10.4	7.32	5.93	3.19
10.5V	146	119	67.7	49.2	37.7	29.0	21.8	15.4	10.3	7.27	5.83	3.15
10.8V	141	115	65.7	48.0	37.1	28.5	21.5	15.2	10.2	7.19	5.74	3.10

Performance Characteristics

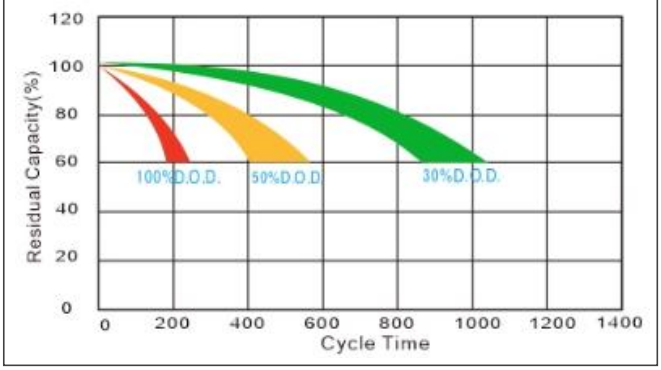
Charge Characteristics (25ºC/77ºF)



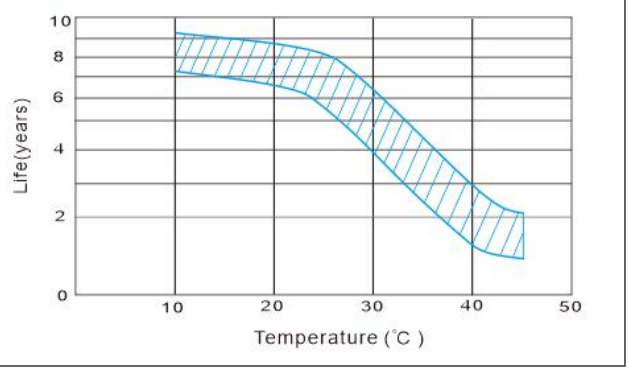
Discharge Characteristic (25ºC/77ºF)



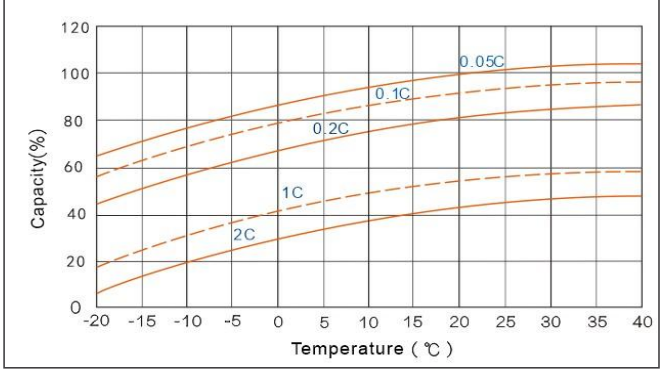
Cycle Life in Relation to Depth of Discharge



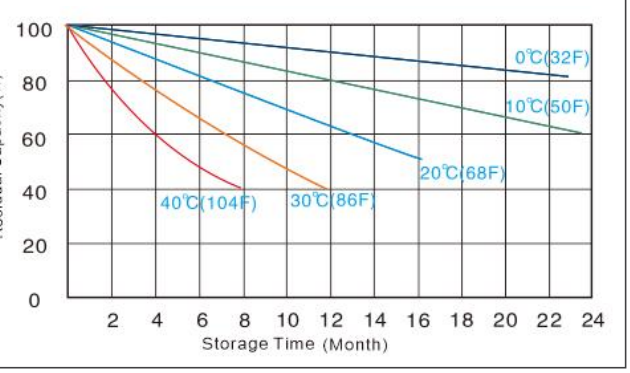
Temperature vs Float Life



Capacity Curve At Different Temperature



Self Discharge Characteristics



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

Original Infinite Power Solar System