

RAW POWER VRLA AGM Battery 6V 7AH [6RP7VA]



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

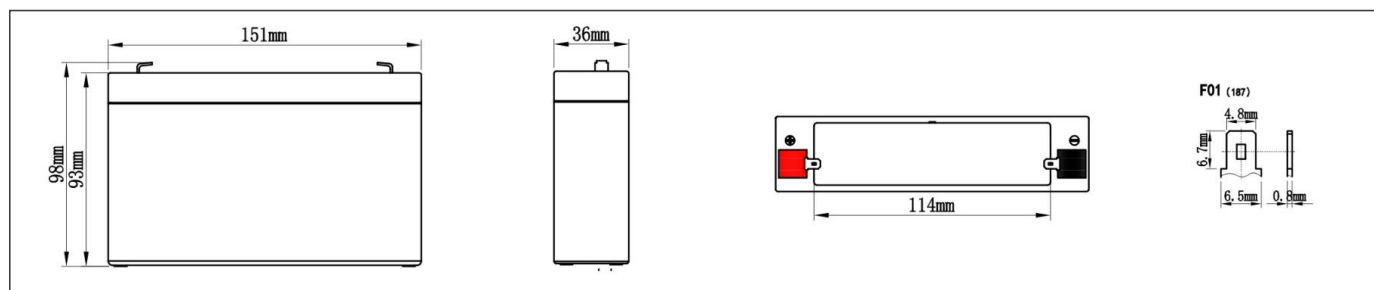
Application

- DC power supply
- 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 (20HR)	Dimension				Weight ±3%	Internal Resistance (In full charge status)	Standard Terminals
		L	W	H	TH			
6V	7.0AH	151±2mm	36±1mm	93±2mm	98±2mm	Approx 1.12kg (2.47lbs)	≈11.0mΩ	F1 (standard)

Dimensions



Constant-Voltage Charge

Rated Capacity	
20 hour rate (0.35A)	7.50AH
10 hour rate (0.70A)	6.90AH
5 hour rate (1.19A)	6.00AH
27 minute rate (7.0A)	3.20AH
7 minute rate (21A)	2.50AH
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 2.1A.
2. Charge until battery voltage (under charge) reaches 7.05V to 7.20V at 25°C(77°F).
3. Hold at 7.05V to 7.20V until current drop to under 0.042A for at least 3 hours.
4. Temperature compensation coefficient of charging voltage is -15mV/°C.
Standby Service
1. Hold battery across constant voltage source of 6.8 to 6.9 volts with current limit 2.1A 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 -9mV/°C.

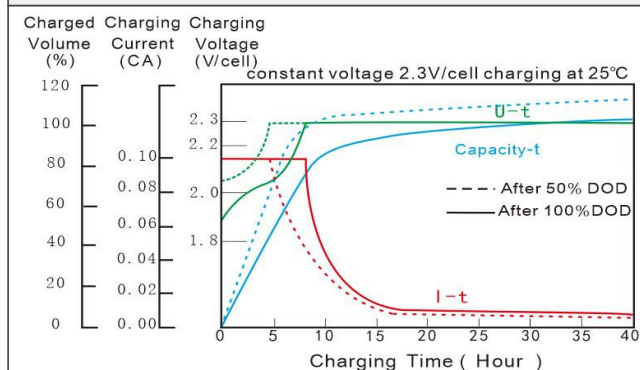
NOTE : The battery should be charged within 6 months of storage, Otherwise, permanent loss of capacity might occur as a result of sulfation

Battery Discharge Table

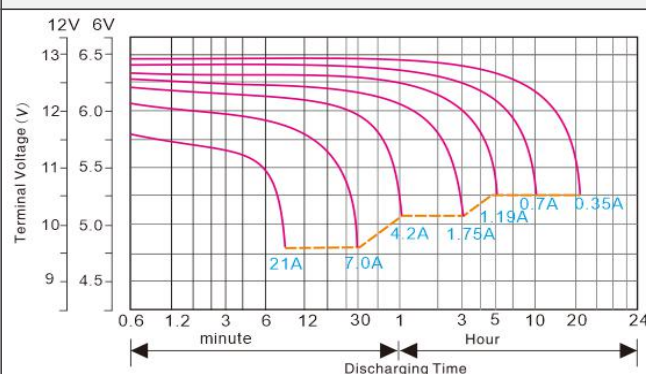
End Voltage (V)	Minute (M)					Hour (H)							
	5	10	15	30	45	1	1.5	2	3	5	8	10	20
Constant Current Discharge Data Sheet (Amperes at 25°C)													
5.10	27.78	18.06	14.15	7.23	5.24	4.48	3.57	2.66	2.01	1.29	0.866	0.710	0.385
5.25	27.57	17.85	14.05	7.16	5.19	4.45	3.51	2.57	1.94	1.26	0.856	0.705	0.380
5.40	27.25	17.64	13.84	7.09	5.13	4.42	3.44	2.46	1.88	1.24	0.845	0.697	0.375
Constant Power Discharge Data Sheet (Watt at 25°C)													
5.10	148.9	107.4	87.0	49.1	35.81	27.24	20.89	15.72	11.22	7.39	5.21	4.21	2.27
5.25	142.6	103.9	84.4	48.1	34.99	26.81	20.59	15.50	10.96	7.31	5.17	4.15	2.24
5.40	135.2	100.0	81.7	46.7	34.10	26.37	20.28	15.27	10.77	7.23	5.11	4.08	2.21

Performance Characteristics

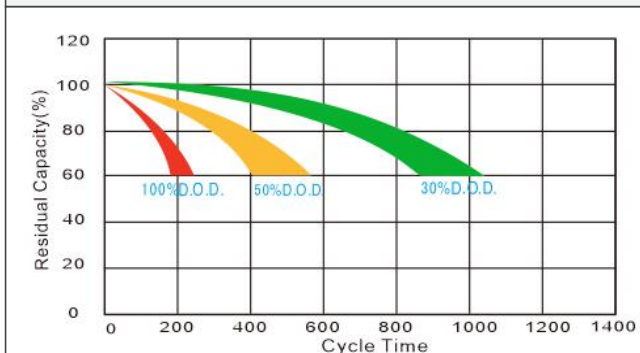
Charge Characteristics (25°C/77°F)



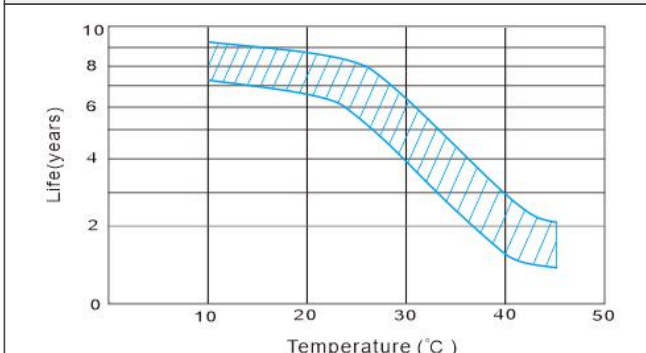
Discharge Characteristic (25°C/77°F)



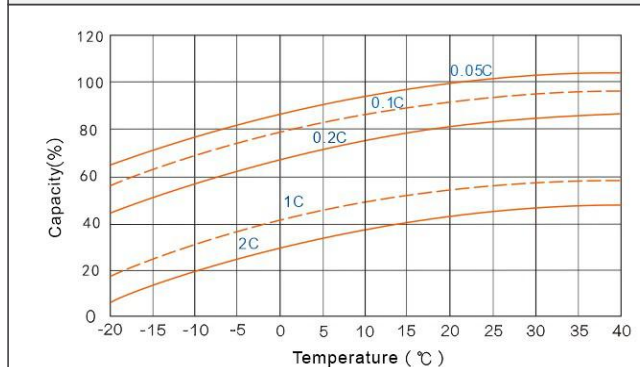
Cycle Life in Relation to Depth of Discharge



Temperature vs Float Life



Capacity Curve At Different Temperature



Self Discharge Characteristics

