

VRLA AGM Battery

12RP1.3VA[12V1.3Ah]



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

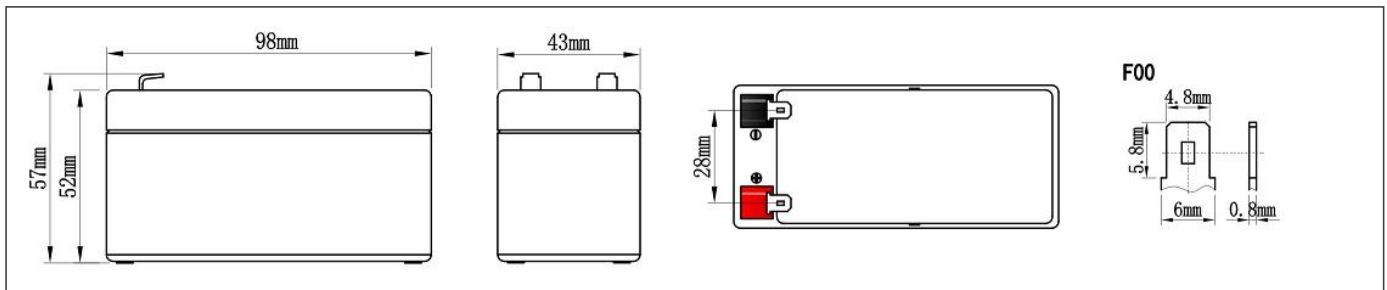
Application

- 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 ±3%	Internal Resistance (In full charge status)	Standard Terminals
		L	W	H	TH			
12V	1.3AH	98±2mm	43±1mm	52±2mm	57±2mm	Approx0.54kg (1.19lbs)	≈96 mΩ	F00 (standard)

Dimensions



Constant-Voltage Charge

Rated Capacity		Cycle Application	
20 hour rate (0.065A)	1.34AH	1. Limit initial current less than 0.325A.	
10 hour rate (0.13A)	1.22AH	2. Charge until battery voltage (under charge) reaches 14.1V to 14.4V at 25°C(77°F).	
5 hour rate (0.221A)	1.11AH	3. Hold at 14.1V to 14.4V until current drop to under 0.0078A for at least 3 hours.	
27 minute rate (1.3A)	0.65AH	4. Temperature compensation coefficient of charging voltage is -30mV/°C.	
7 minute rate (3.9A)	0.46AH		
Capacity affected by Temperature		Standby Service	
40°C(104°F)	103%	1. Hold battery across constant voltage source of 13.6to 13.8 volts with current limit 0.325A continuously .When held at this voltage , the battery will seek its own current level and maintain itself in a fully charge status.	
25°C(77°F)	100%	2. Temperature compensation coefficient of charging voltage is -18mV/°C.	
0°C(32°F)	86%		

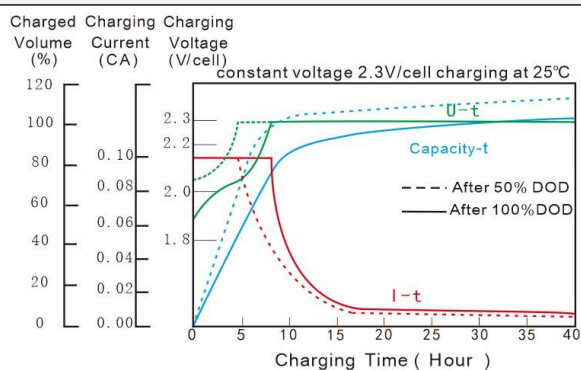
NOTE : The battery should be charged within 6 months of storage, Otherwise, permanent loss of capacity might occur as a result of sulfation

Battery Discharge Table

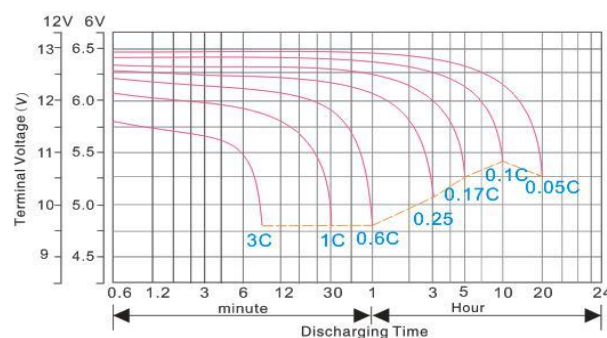
End Voltage (V)	Minute (M)				Hour (H)							
	10	15	30	45	1	1.5	2	3	5	8	10	20
Constant Current Discharge Data Sheet (@25°C) Unit: A												
9.6V	3.50	2.74	1.40	0.990	0.789	0.640	0.491	0.369	0.237	0.161	0.126	0.069
9.9V	3.34	2.61	1.33	0.956	0.770	0.624	0.479	0.360	0.232	0.158	0.125	0.069
10.2V	3.18	2.49	1.27	0.924	0.751	0.609	0.467	0.351	0.226	0.155	0.124	0.068
10.5V	3.15	2.47	1.26	0.914	0.751	0.602	0.452	0.342	0.223	0.154	0.123	0.067
10.8V	3.12	2.44	1.25	0.904	0.741	0.589	0.437	0.332	0.219	0.152	0.122	0.066
Constant Power Discharge Data Sheet (@25°C) Unit: W												
9.6V	42.3	34.2	19.3	13.7	10.2	7.84	5.90	4.20	2.77	1.93	1.53	0.826
9.9V	40.3	32.6	18.4	13.2	10.0	7.65	5.76	4.10	2.71	1.90	1.52	0.818
10.2V	38.4	31.1	17.5	12.8	9.73	7.46	5.62	4.00	2.64	1.86	1.50	0.810
10.5V	37.1	30.1	17.2	12.5	9.58	7.35	5.53	3.92	2.61	1.85	1.48	0.799
10.8V	35.7	29.2	16.7	12.2	9.41	7.24	5.45	3.85	2.58	1.83	1.46	0.788

Performance Characteristics

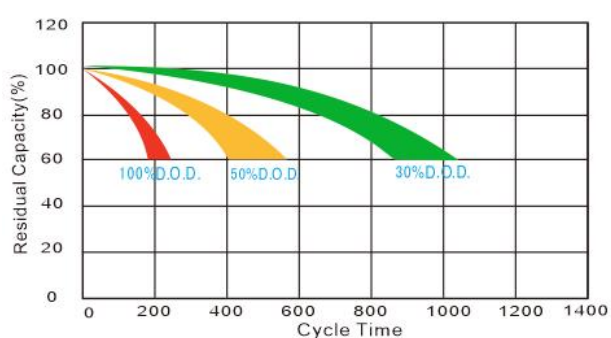
Charge Characteristics (25°C/77°F)



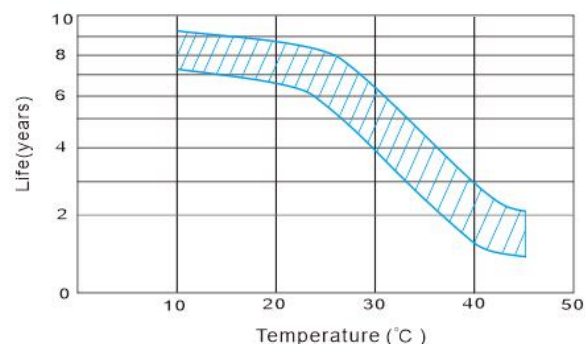
Discharge Characteristic (25°C/77°F)



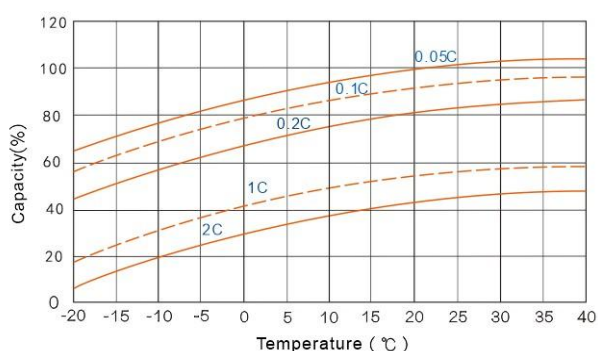
Cycle Life in Relation to Depth of Discharge



Temperature vs Float Life



Capacity Curve At Different Temperature



Self Discharge Characteristics

