

VRLA AGM Battery

12RP22VA[12V22Ah]



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

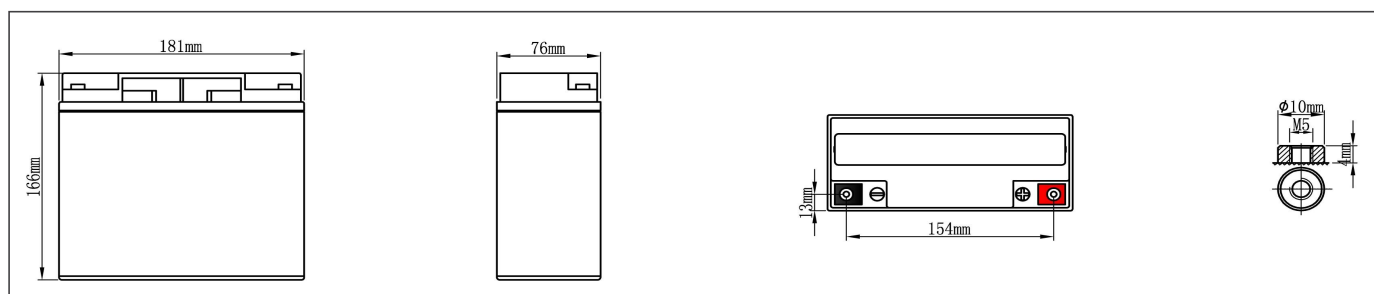
Application

- 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	22AH	181±2mm	76±2mm	166±2mm	166±2mm	Approx 6.1kg (13.4lbs)	≈11.5mΩ	T03 (standard)

Dimensions



Constant-Voltage Charge

Rated Capacity		Cycle Application	
20 hour rate (1.10A)	22.00AH	1. Limit initial current less than 5.5A.	
10 hour rate (2.20A)	20.50AH	2. Charge until battery voltage (under charge) reaches 14.1V to 14.4V at 25°C(77°F).	
5 hour rate (3.74A)	18.25H	3. Hold at 14.1V to 14.4V until current drop to under 0.132A for at least 3 hours.	
27 minute rate (22A)	11.00AH	4. Temperature compensation coefficient of charging voltage is -30mV/°C.	
7 minute rate (66A)	7.70AH		
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 5.5A 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%		

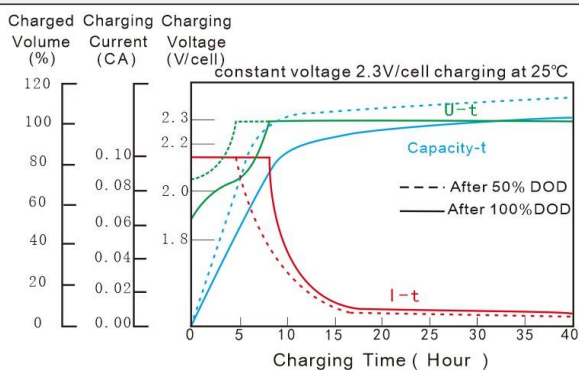
NOTE : The battery should be charged within 6 months of storage, Otherwise, permanent loss of capacity might occur as a result of sulfation

Battery Discharge Table

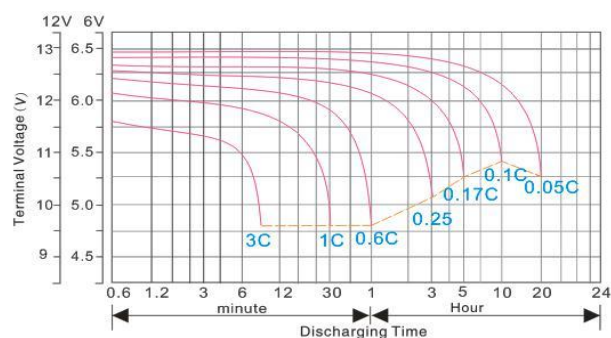
End Voltage (V)	Minute (M)				Hour (H)							
	10	15	30	45	1	1.5	2	3	5	8	10	20
Constant Current Discharge Data Sheet (@25°C) Unit: A												
9.6V	57.5	45.0	23.0	16.2	13.7	10.8	8.08	6.09	3.90	2.59	2.15	1.14
9.9V	54.7	42.9	21.9	15.6	13.3	10.6	7.88	5.95	3.81	2.54	2.12	1.13
10.2V	52.2	40.8	20.9	15.1	13.0	10.3	7.69	5.80	3.71	2.48	2.11	1.12
10.5V	51.7	40.5	20.7	15.0	12.9	10.1	7.40	5.62	3.65	2.47	2.09	1.10
10.8V	51.1	40.0	20.5	14.7	12.8	10.0	7.11	5.42	3.58	2.44	2.05	1.08
Constant Power Discharge Data Sheet (@25°C) Unit: W												
9.6V	669	542	306	217	162	124	93.7	66.6	43.9	30.6	24.3	13.1
9.9V	637	516	291	209	158	121	91.1	65.0	42.8	30.0	24.1	13.0
10.2V	607	492	278	202	154	118	88.5	63.3	41.8	29.4	23.8	12.8
10.5V	587	477	272	198	151	116	87.7	62.0	41.3	29.2	23.5	12.6
10.8V	565	461	264	193	149	114	85.9	60.8	40.8	28.9	23.0	12.5

Performance Characteristics

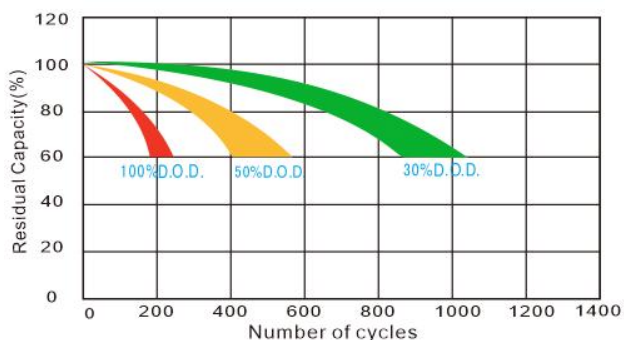
Charge Characteristics (25°C/77°F)



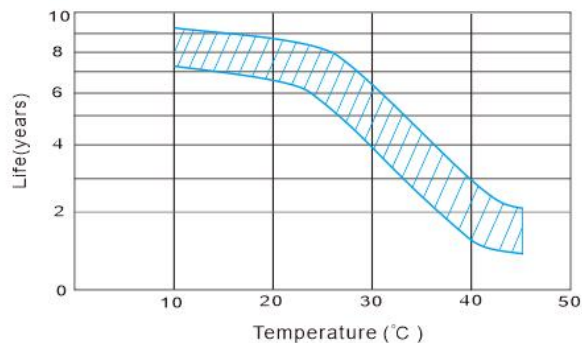
Discharge Characteristic (25°C/77°F)



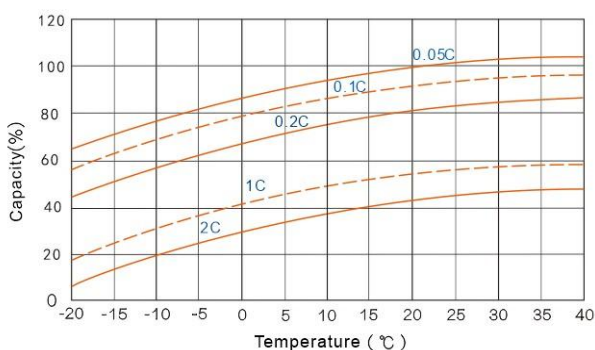
Cycle Life in Relation to Depth of Discharge



Temperature vs Float Life



Capacity Curve At Different Temperature



Self Discharge Characteristics

