

VRLA AGM Battery

12IP22VA[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

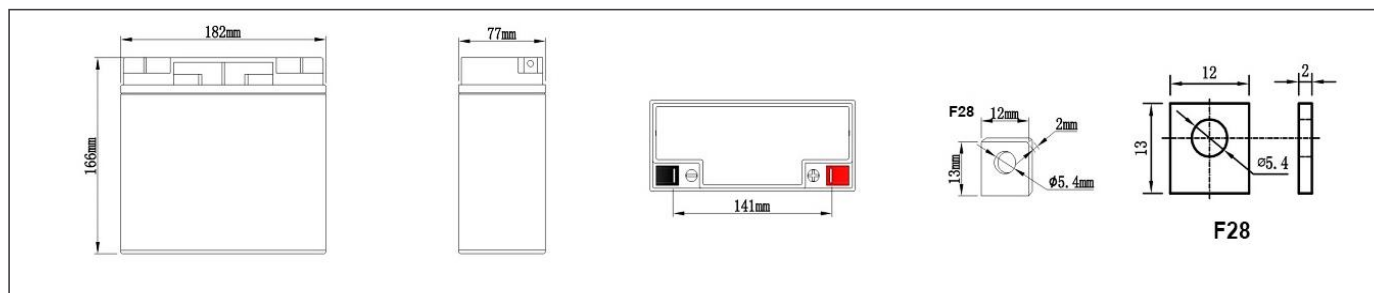
Application

- 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 ±3%	Internal Resistance (In full charge status)	Standard Terminals
		L	W	H	TH			
12V	22AH	182±2mm	77±2mm	166±2mm	166±2mm	Approx 5.80kg (12.76lbs)	≈12.1mΩ	F28 (standard)

Dimensions



Constant-Voltage Charge

Rated Capacity	
20 hour rate (1.10A)	22.00AH
10 hour rate (2.20A)	20.50AH
5 hour rate (3.74A)	18.70AH
27 minute rate (22A)	11.00AH
7 minute rate (66A)	7.70AH
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 6.6A.
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 0.132A 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 6.6A 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.

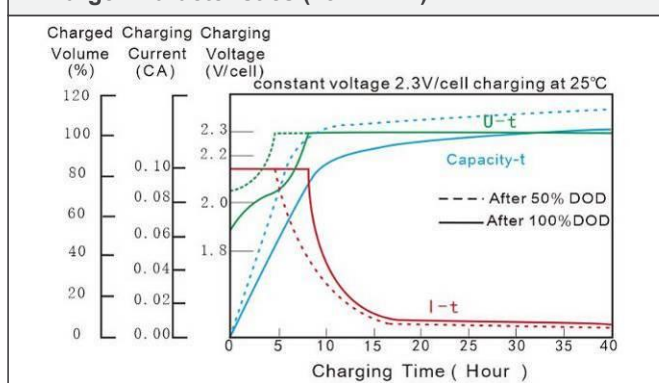
⚠ NOTE : The battery should be charged within 6 months of storage, Otherwise, permanent loss of capacity might occur as a result of sulfation

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	51.9	40.7	20.9	15.1	12.9	10.2	7.84	5.90	3.90	2.59	2.15	1.14
9.9V	49.3	38.7	19.7	14.7	12.6	10.0	7.65	5.75	3.81	2.54	2.12	1.13
10.2V	47.0	36.9	19.0	14.3	12.2	9.7	7.48	5.63	3.77	2.48	2.11	1.12
10.5V	46.5	36.7	18.8	14.1	12.1	9.5	7.19	5.45	3.74	2.47	2.09	1.10
10.8V	46.3	36.1	18.4	13.9	12.0	9.4	6.89	5.26	3.70	2.44	2.05	1.08
Constant Power Discharge Data Sheet (@25°C) Unit: W												
9.6V	606	492	278	195	147	112	86	61	39.7	27.8	22.0	11.9
9.9V	578	480	264	190	144	110	84	60	39.0	27.3	21.9	11.7
10.2V	551	445	251	184	140	108	81	58	38.0	26.7	21.6	11.6
10.5V	531	433	247	181	138	106	80	57	37.4	26.4	21.2	11.4
10.8V	513	418	239	175	134	103	79	55	37.0	26.3	20.9	11.3

Performance Characteristics

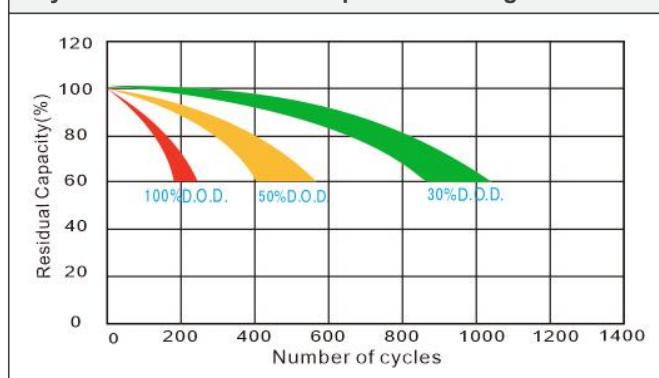
Charge Characteristics (25°C/77°F)



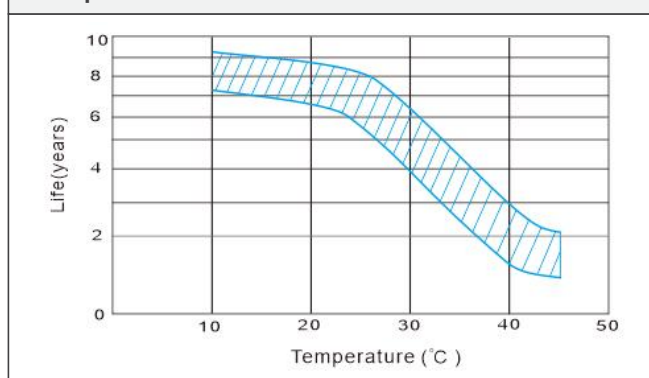
Discharge Characteristic (25°C/77°F)



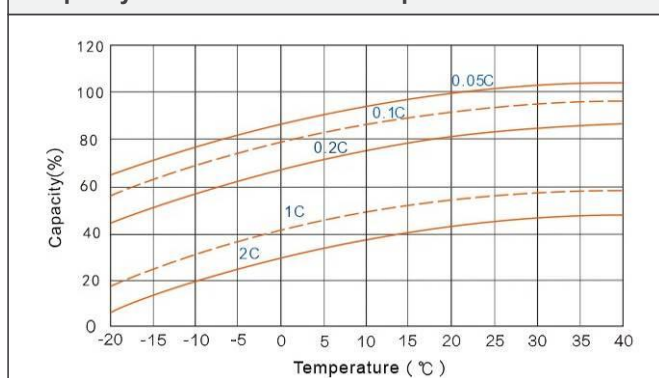
Cycle Life in Relation to Depth of Discharge



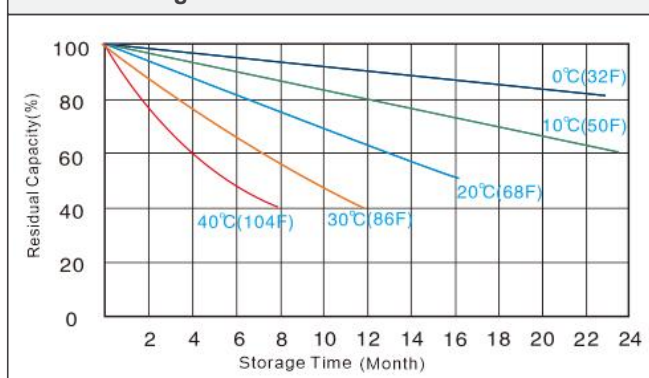
Temperature vs Float Life



Capacity Curve At Different Temperature



Self Discharge Characteristics



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