

VRLA AGM Battery

12IP35VA[12V35Ah]



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

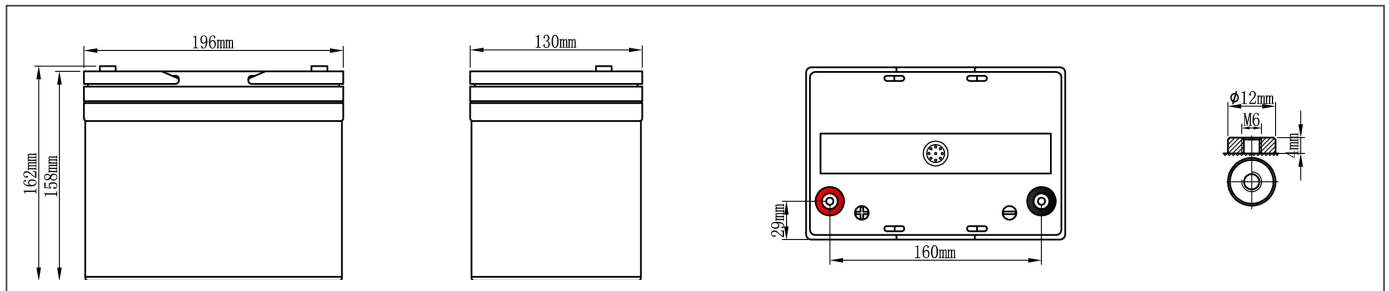
Application

- DC power supply
- Medical equipments
- UPS/EPS power supply
- Telecom stations and power stations

Physical Specifications

Nominal Voltage	Nominal Capacity (10HR)	Dimension				Weight ±2%	Internal Resistance (In full charge status)	Standard Terminals
		L	W	H	TH			
12V	35AH	196±2mm	130±2mm	158±2mm	162±2mm	Approx 9.5kg (20.94lbs)	≈ 8.6mΩ	T06 (standard)

Dimensions



Constant-Voltage Charge

Rated Capacity	
20 hour rate (1.65A)	36.60AH
10 hour rate (3.30A)	35.00AH
5 hour rate (5.61A)	29.75AH
27 minute rate (33A)	15.75AH
7 minute rate (99A)	12.25AH
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 10.5A.
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 0.198A 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 13.6V to 13.8V with current limit 10.5A 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/°C.

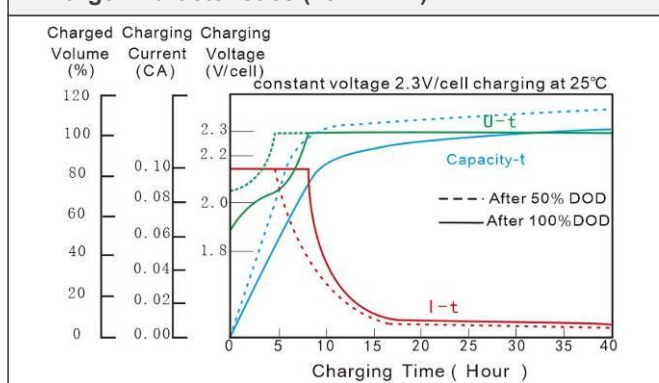
NOTE : The battery should be charged within 6 months of storage. Otherwise, permanent loss of capacity might occur as a result of sulfation

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	88.2	69.1	35.3	24.9	20.9	16.5	12.2	9.26	5.98	3.96	3.42	1.77
9.9V	84.0	65.8	33.6	24.0	20.4	16.1	11.9	9.03	5.83	3.89	3.38	1.76
10.2V	80.0	62.7	32.0	23.2	19.9	15.8	11.6	8.81	5.69	3.81	3.35	1.74
10.5V	79.2	62.0	31.7	23.1	19.8	15.5	11.2	8.54	5.61	3.77	3.32	1.72
10.8V	78.3	61.4	31.5	23.0	19.7	15.3	10.8	8.26	5.47	3.73	3.30	1.69
Constant Power Discharge Data Sheet (@25°C) Unit: W												
9.6V	992	803	454	321	239	184	138	99	65	45.4	36.0	19.4
9.9V	945	765	432	310	234	179	135	96	63	44.5	35.6	19.2
10.2V	900	728	412	300	228	175	132	94	62	43.6	35.3	19.0
10.5V	870	707	403	293	224	172	130	92	61	43.2	34.8	18.7
10.8V	838	684	391	285	220	170	128	90	60	42.8	34.2	18.5

Performance Characteristics

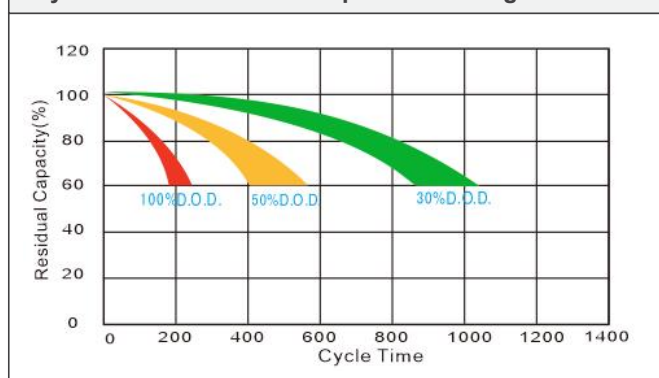
Charge Characteristics (25°C/77°F)



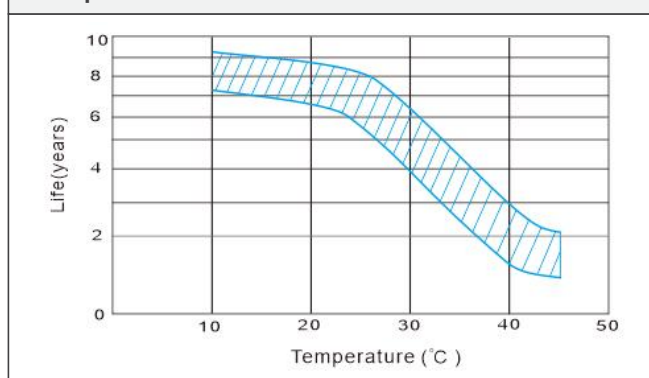
Discharge Characteristic (25°C/77°F)



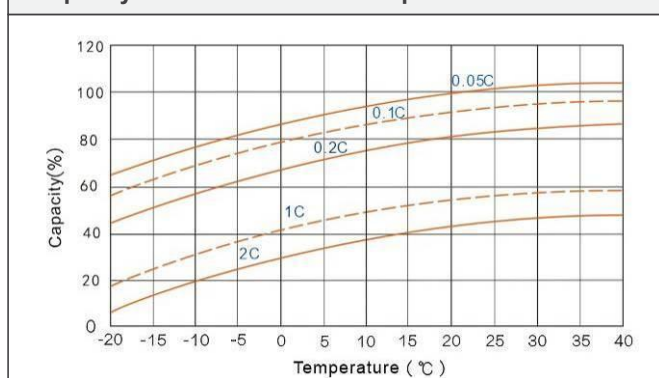
Cycle Life in Relation to Depth of Discharge



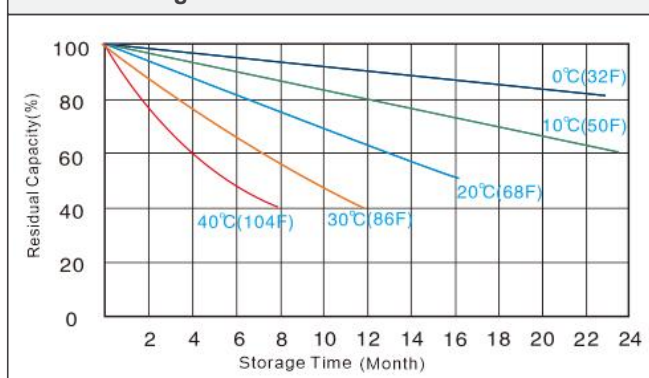
Temperature vs Float Life



Capacity Curve At Different Temperature



Self Discharge Characteristics



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