

VRLA AGM Battery

CL 2-100 [2V100Ah]



General Features

- Designed floating charging service life: 15 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

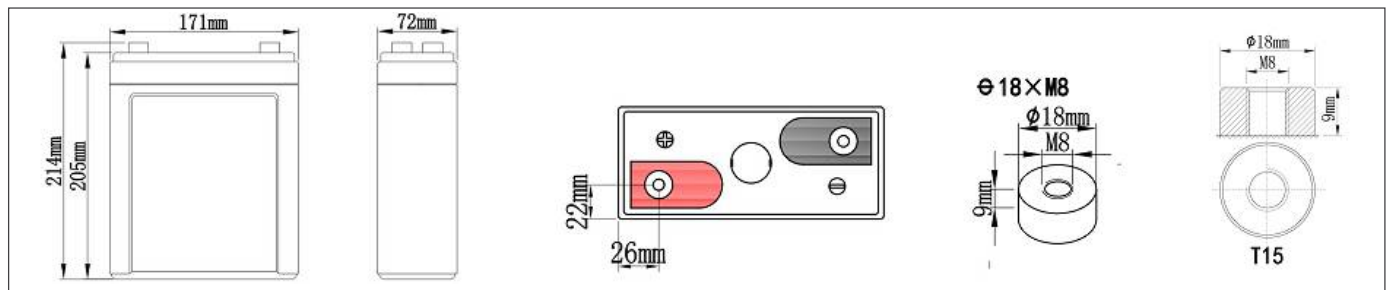
Application

- 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			
2V	100AH	171±2mm	72±2mm	205±3mm	214±3mm	Approx 5.9kg (13.0lbs)	≈0.86mΩ	T15 (standard)

Dimensions



Constant-Voltage Charge

Rated Capacity	
20 hour rate (5A)	106.0AH
10 hour rate (10A)	101.0AH
5 hour rate (17A)	88.5AH
3 hour rate (25A)	79.5AH
1 hour rate (60A)	63.0AH
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 20A.	
2. Charge until battery voltage (under charge) reaches 2.30V to 2.35V at 25°C(77°F).	
3. Hold at 2.30V to 2.35V until current drop to under 0.6A for at least 3 hours.	
4. Temperature compensation coefficient of charging voltage is -5mV/°C.	
Standby Service	
1. Hold battery across constant voltage source of 2.26 to 2.28 volts with current limit 20A 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 -3mV/°C.	

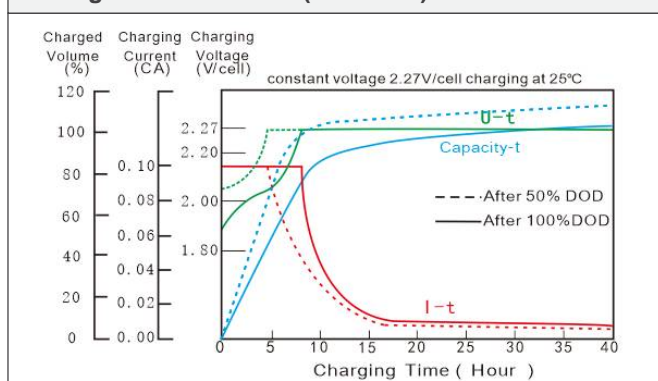
NOTE : The battery should be charged within 6 months of storage, Otherwise, permanent loss of capacity might occur as a result of sulfation

Battery Discharge Table

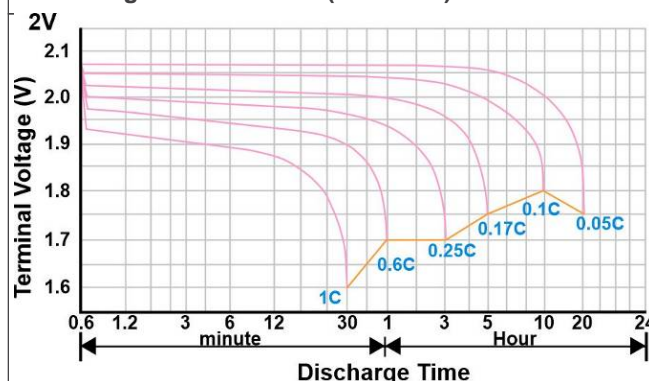
End Voltage (V)	Minute (M)				Hour (H)							
	10	15	30	45	1	1.5	2	3	5	8	10	20
Constant Current Discharge Data Sheet (@25°C) Unit: A												
1.60V	210	192	123	86	63	50.6	42.2	27.8	19.0	13.7	10.5	5.46
1.65V	200	183	117	83	61	49.4	41.2	27.1	18.6	13.4	10.4	5.41
1.70V	191	174	111	80	60	48.2	40.2	26.5	18.1	13.2	10.3	5.35
1.75V	182	166	106	78	58	47.0	39.2	25.8	17.7	12.9	10.2	5.30
1.80V	173	158	101	75	57	45.9	38.3	25.1	17.3	12.7	10.1	5.25
Constant Power Discharge Data Sheet (@25°C) Unit: W												
1.60V	395	361	203	165	126	85	79	45.8	35.7	27.4	21.9	12.3
1.65V	377	343	193	159	123	83	77	44.6	34.8	26.8	21.7	12.2
1.70V	359	327	184	154	120	81	75	43.5	33.9	26.3	21.5	12.0
1.75V	341	312	175	148	117	79	73	42.4	33.1	25.8	21.3	11.9
1.80V	325	297	167	143	114	78	72	41.4	32.3	25.3	21.1	11.8

Performance Characteristics

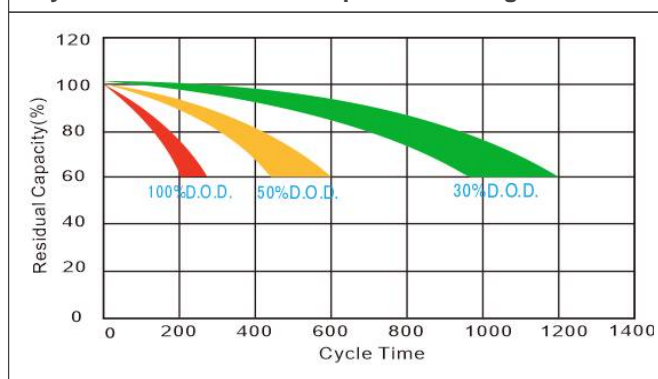
Charge Characteristics (25°C/77°F)



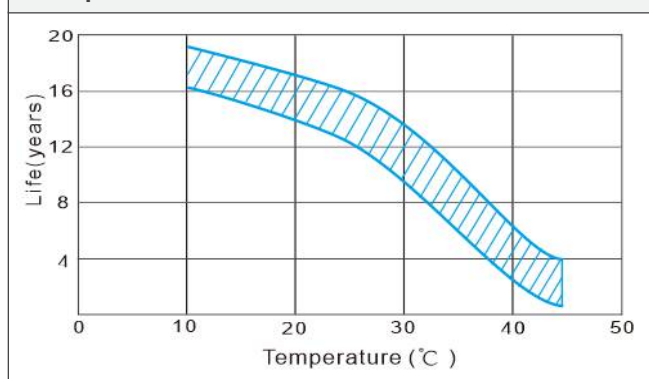
Discharge Characteristic (25°C/77°F)



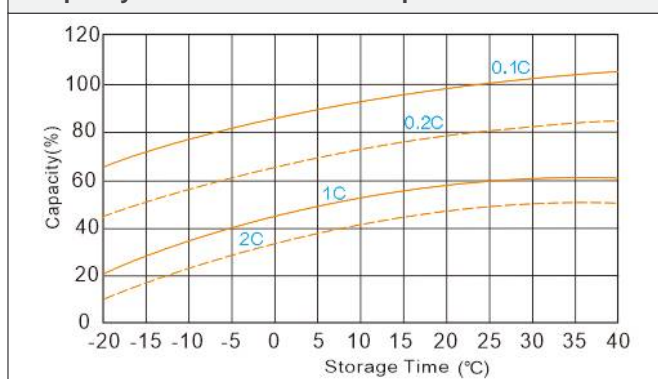
Cycle Life in Relation to Depth of Discharge



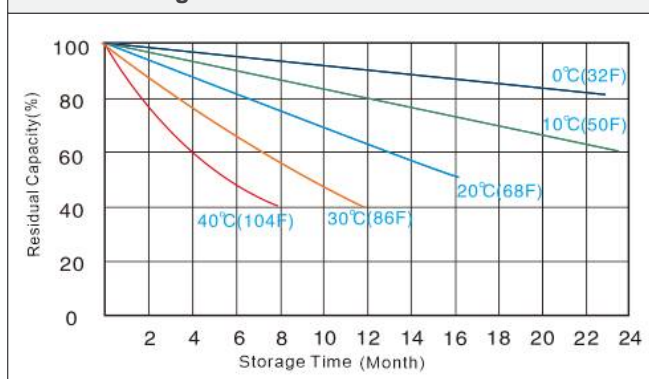
Temperature vs Float Life



Capacity Curve At Different Temperature



Self Discharge Characteristics



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