

## 12-200AG

12 Volt 200Ah AG Battery



### General Features

- Nanosilica colloidal electrolyte and high tin positive plate alloy design to enhance battery performance
- Relatively rich electrolyte, high temperature and low temperature performance is superior
- Long cycle life, excellent deep cycle discharge ability
- Excellent charge acceptance ability
- Precision Sealing Technology
- Long Life



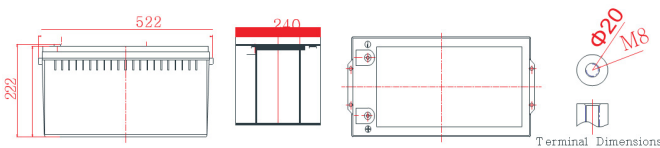
ISO  
9001  
Quality  
Management

Cert: 2010070201

ISO  
14001  
Environment  
Management

Cert: 2019062601

Dimension: 522(L) × 240(W) × 219(H) × 222(TH) Unit: mm



### Applications

- Solar / wind energy and other new energy storage
- UPS/EPS
- Power Systems
- Telecommunications system
- Emergency lighting, Auto Control System
- Other General Purpose

### Specifications

Nominal Voltage	12V
Nominal Capacity	200Ah
Design Life	10 years
Terminal	M8
Approx. Weight	Approx. 59.0 kg
Container Material	ABS
Rated Capacity	<b>200Ah</b> 20 Hour Rate (20.0A to 10.8V)
	<b>158Ah</b> 3 Hour Rate (52.6A to 10.8V)
	<b>128Ah</b> 1 Hour Rate (128A to 10.5V)
Internal Resistance	Full Charged at 25°C 3.2mΩ
Max. Discharge Current	2400A(5S)
Operating Temperature	Discharge: -40 ~60°C
	Charge: -20 ~50°C
	Storage: -20 ~50°C
Charge Current:	Max. 25A Recom.10A
Charge Method (25 °C):	Charge current: Max.50.0A ; Recom.20.0A
	Float Charge: 13.5-13.8V, recom.13.5V(-18mV/°C)
	Equalize charge: 13.8-14.1V, recom.14.1V(-24mV/°C)
	Cycle charge: 14.4-15.0V, recom.14.4V(-30mV/°C)
Self discharge:	3% of capacity declined per month at 25°C

### Constant Current Discharge Characteristics

Unit: A (25°C, 77°F)

FV/Time	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	367	223	132	75.7	54.9	36.9	24.2	20.7	10.9
1.65V	356	220	131	75.3	54.4	36.5	24.0	20.5	10.8
1.70V	348	216	130	74.7	53.6	36.1	23.8	20.3	10.7
1.75V	337	214	128	73.6	53.0	35.7	23.6	20.1	10.7
1.80V	314	205	125	72.2	52.6	34.8	23.4	20.0	10.6
1.85V	280	187	116	68.6	49.6	33.0	22.5	19.3	10.5

### Constant Power Discharge Characteristics

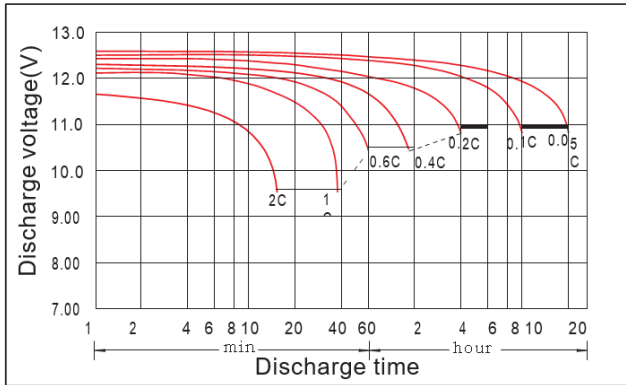
Unit: W/cell (25°C, 77°F)

FV/Time	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	647	404	250	143	104	69.9	47.1	39.8	21.5
1.65V	636	400	248	143	103	69.5	46.7	39.4	21.4
1.70V	628	400	246	142	103	69.0	46.5	39.0	21.3
1.75V	624	398	244	141	102	68.6	46.1	38.6	21.2
1.80V	590	389	242	141	102	67.8	45.7	38.2	21.1
1.85V	527	357	225	135	96.6	64.7	44.2	37.6	20.9

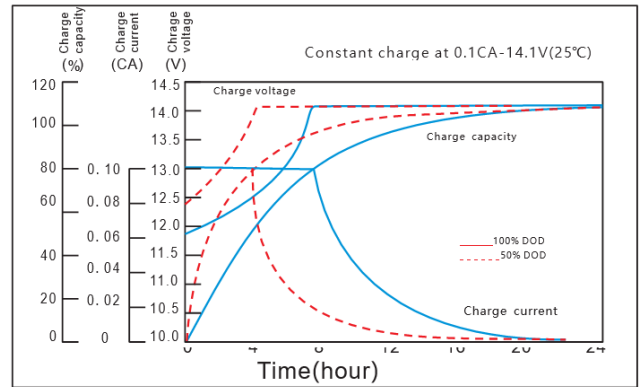
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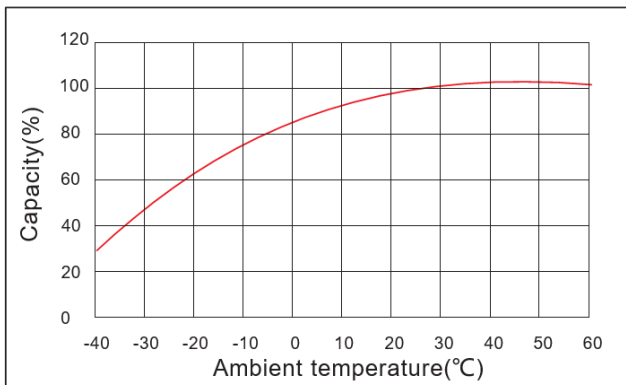
### Discharge characteristic



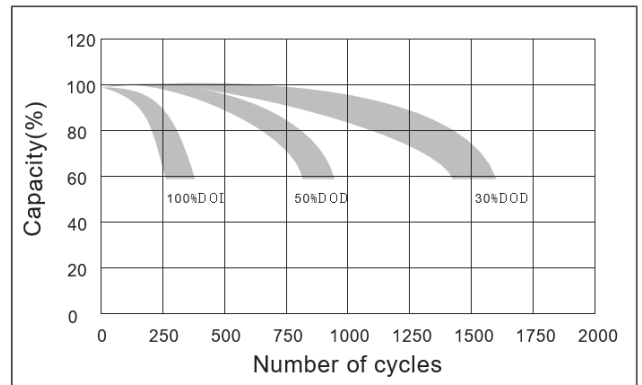
### Charging characteristic



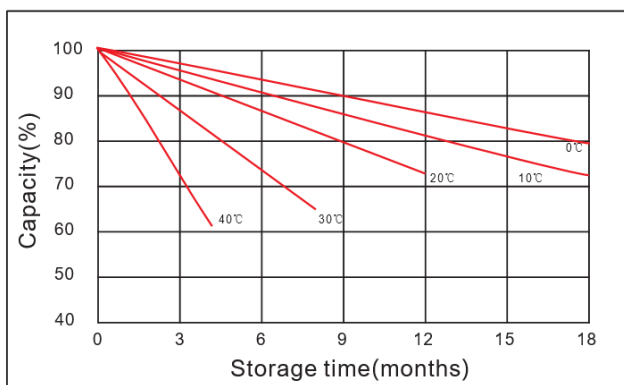
### The effect of temperature on capacity



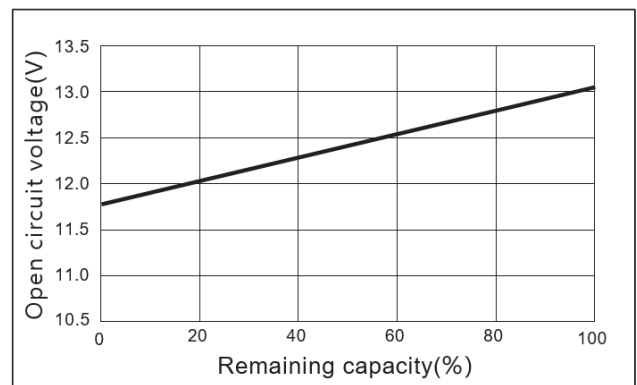
### The effect of discharge depth on cycle life



### Curves of self-discharge



### Curves of open circuit voltage vs. capacity





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