

Tubular GEL Battery

OPzV200-12

Applications

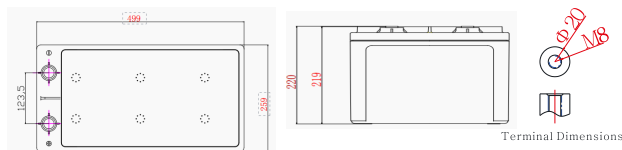
- › Solar / wind energy and other new energy storage
- › Power systems
- › Telecommunications system
- › UPS/EPS
- › Auto control system
- › Other general purpose

General Features

- › Tubular plate design to enhance battery performance
- › Tubular plate design makes long battery life
- › 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



Dimension: 499(L) × 259(W) × 219(H) × 220(TH) Unit: mm



Specification

Nominal Voltage	12V
Nominal Capacity	200Ah
Design life	20 years
Terminal	M8
Approx. Weight	Approx 72kg (159lbs)
Container Material	ABS
Rated Capacity	215A 20Hour Rate (10.75A to 1.80V)
	200A 10Hour Rate (20A to 1.80V)
	182A 5Hour Rate (36.4A to 1.75V)
Internal resistance	Full charged at 25°C: 5 mΩ
Max. Discharge Current	1200A(5S)
Operating Temperature	Discharge: -15 ~ 50°C (-4 ~ 122°F)
	Charge: -10 ~ 50°C (-4 ~ 122°F)
	Storage: -20 ~ 50°C (-4 ~ 122°F)
Charge current:	Max. 40A ; Recom. 20A
Charge Method (25 °C)	Float Charge: 13.3-13.5V, recom. 13.5V (-18mV/ °C)
	Cycle charge: 14.1-14.4V, recom. 14.4V (-30mV/ °C)
Self discharge	3% of capacity declined per month at 25°C

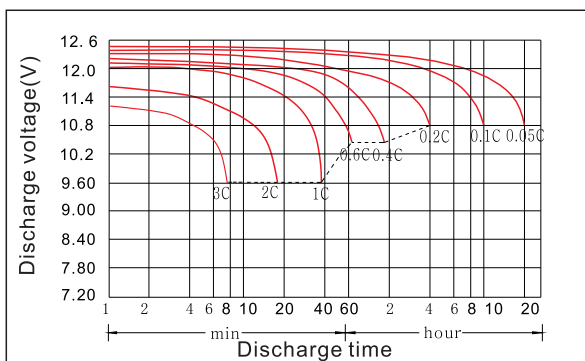
Constant Current Discharge Characteristics Unit: A (25 °C, 77 °F)

F.V/Time	30MIN	60MIN	2HR	3HR	4HR	5HR	6HR	7HR	8HR	10HR	20HR
1.90V/cell	150	107.0	64.7	48.6	39.0	32.9	28.1	24.2	21.3	18.8	9.63
1.85V/cell	172	120.3	71.2	51.1	40.3	35.0	30.4	25.8	22.6	19.7	10.30
1.80V/cell	190	127.0	75.9	54.2	42.6	35.6	30.8	26.7	24.0	20.0	10.75
1.75V/cell	200	129.8	78.0	55.0	43.6	36.2	31.4	27.6	24.6	20.4	11.00

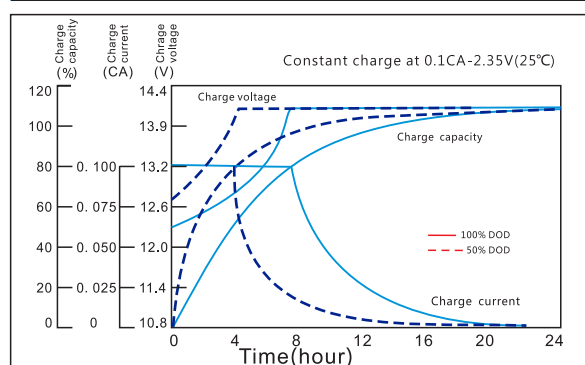
Constant Power Discharge Characteristics Unit: W (25 °C, 77 °F)

F.V/Time	30MIN	60MIN	2HR	3HR	4HR	5HR	6HR	7HR	8HR	10HR	20HR
1.90V/cell	1692	1236	756.0	574.8	458.4	388.8	332.4	285.6	250.8	222.0	114.72
1.85V/cell	1992	1380	822.0	595.2	471.6	409.2	357.6	298.8	264.0	231.6	122.44
1.80V/cell	2172	1476	882.0	628.8	494.4	415.2	358.8	306.4	279.6	232.5	127.55
1.75V/cell	2280	1500	914.4	633.6	501.6	420.0	362.4	315.6	284.4	239.2	132.79

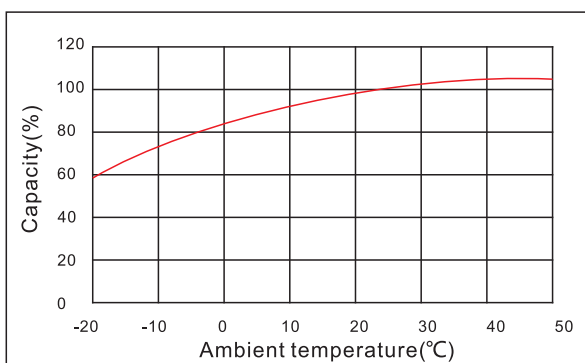
Discharge characteristic



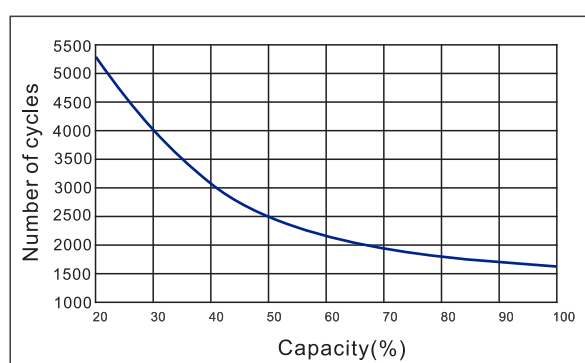
Charging characteristic



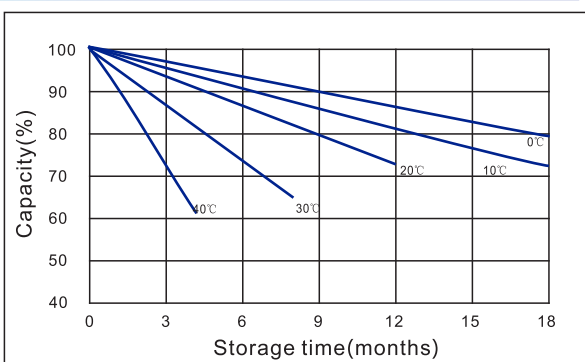
The effect of temperature on capacity



The effect of discharge depth on life



Curves of self-discharge



Curves of open circuit voltage

