AME ENERCON

We are an ISO9001 certified organization. And the products are approved by CE & UL. The nominal voltage of this series is 12V. And the capacityranges from 33Ah to 250Ah. Their typical applications include: emergency lighting systems, electricity power supply systems, communication systems, UPS systems, starting systems,solar systems etc.

Battery Construction

Component	Material
Positive plate	Lead dioxide
Negative plate	Lead
Container	ABS
Cover	ABS
Safety valve	Rubber
Terminal	Copper
Electrolyte	Gelled acid

General Features

Maintenance free
Convenient for installation
Safety and no leakage
Excellent recharge and discharge performance
Low self-discharge rate,charge each standby 6 months, temperature 25℃
Adapt to high or low temperature
Good deep discharge performance
Longer cycle life
UL approval

Performance Characteristics

1.Dimension

Length	522mm
Width	240mm
Height	219mm
Total Height	223mm

2.Functional Parameter

Rated Voltage	12V
Numbers of cells	6 Cells
Designed Life	10~12 Years

3.Rated Capacity at 25℃（77° F）

10 hr rate（0.1C，10.8V）	200Ah
3 hr rate（0.25C，10.8V）	144.7Ah
1 hr rate（0.55C，10.5V）	110.1Ah

4.Capacity affected by Temperature（10hour rate）

40 ℃ (104° F)	103%
25 ℃ (77° F)	100%
0 ℃ (32° F)	85%
-15℃ (5° F)	65%

5.Charge Method: constant-voltage charging at 25℃（77° F）

Cyclic use	14.4～14.9V
Maximum charging current	50A
Temperature Compensation	-30mV/℃
Float Use	13.6～13.8V
rature Compensation	-20mV/℃

6.Environment Temperature Requirements

Discharge Temperature	-20～60℃
Charge Temperature	0～50℃
Storage Temperature	-20～60℃

7.Inner Resistance&Max. Discharge Current

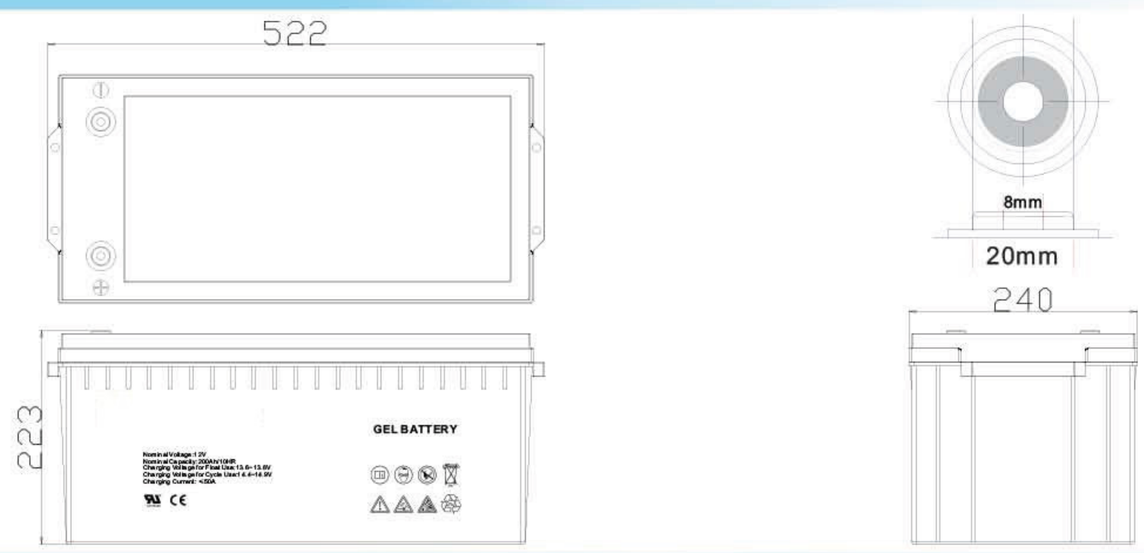
A fully charged battery at 25℃（77° F）	3.5mΩ
Max. Discharge Current	3000A (5s)
Short Circuit Current	10000A

8.Self-discharge

3% Of the capacity per month at 25℃（77° F）

Capacity after 3 month storage	91%
Capacity after 6 month storage	82%
Capacity after 12 month storage	64%

Dimensions（mm）



3D Model Review

Constant-current discharge parameter Unit: A（25℃）

F.V/Time	20min	30min	45min	1h	2h	3h	5h	6h	8h	10h	20h
1.80V/cell	212.97	163.08	122.75	102.86	63.96	48.24	33.85	29.23	23.30	20.00	10.99
1.75V/cell	239.34	179.34	132.75	110.11	67.80	50.99	35.16	30.22	24.07	20.44	11.21
1.70V/cell	257.80	192.09	140.99	116.48	71.87	53.08	36.26	31.32	24.73	20.88	11.32
1.65V/cell	268.35	199.56	145.93	120.88	73.74	54.84	37.03	31.76	25.16	21.21	11.43
1.60V/cell	290.77	213.63	156.81	128.35	76.70	57.03	38.13	32.53	25.60	21.54	11.65

Constant-current discharge parameter Unit: W（25℃）

F.V/Time	20min	30min	45min	1h	2h	3h	5h	6h	8h	10h	20h
1.80V/cell	402.31	311.32	236.37	199.23	124.51	94.29	66.59	57.58	46.15	39.89	21.87
1.75V/cell	447.14	339.23	253.63	212.20	131.43	99.34	68.90	59.45	47.58	40.66	22.31
1.70V/cell	476.37	360.22	267.36	223.19	138.68	103.19	70.88	61.43	48.90	41.54	22.53
1.65V/cell	490.33	370.33	274.95	230.33	141.54	105.93	72.20	62.31	49.56	41.98	22.75
1.60V/cell	525.38	392.64	293.19	243.19	146.59	109.67	74.18	63.52	50.33	42.75	23.08

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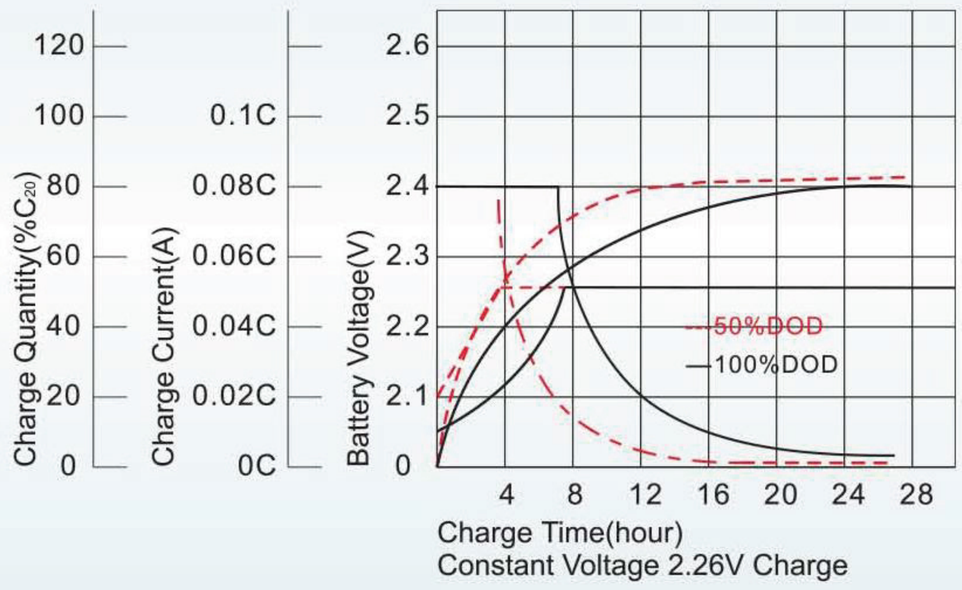
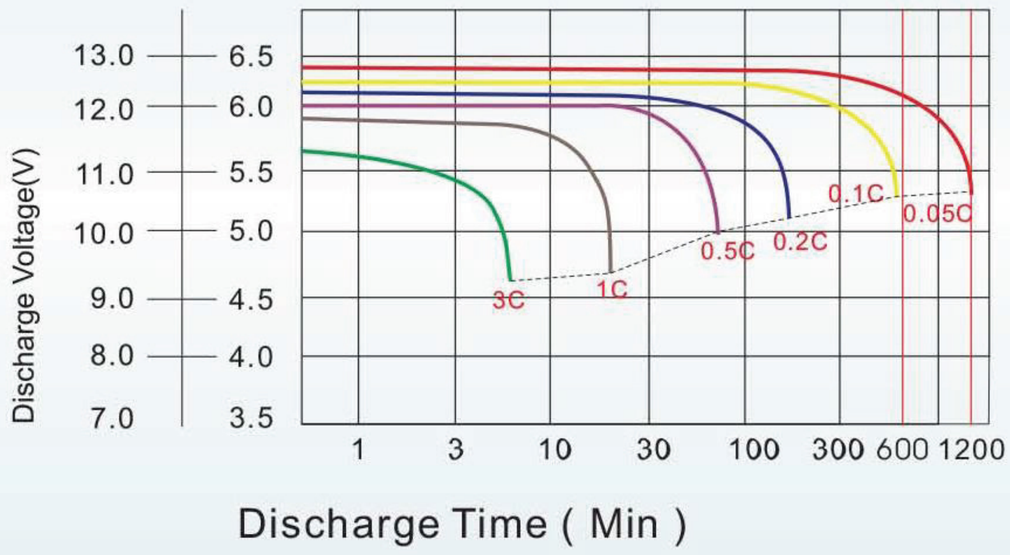
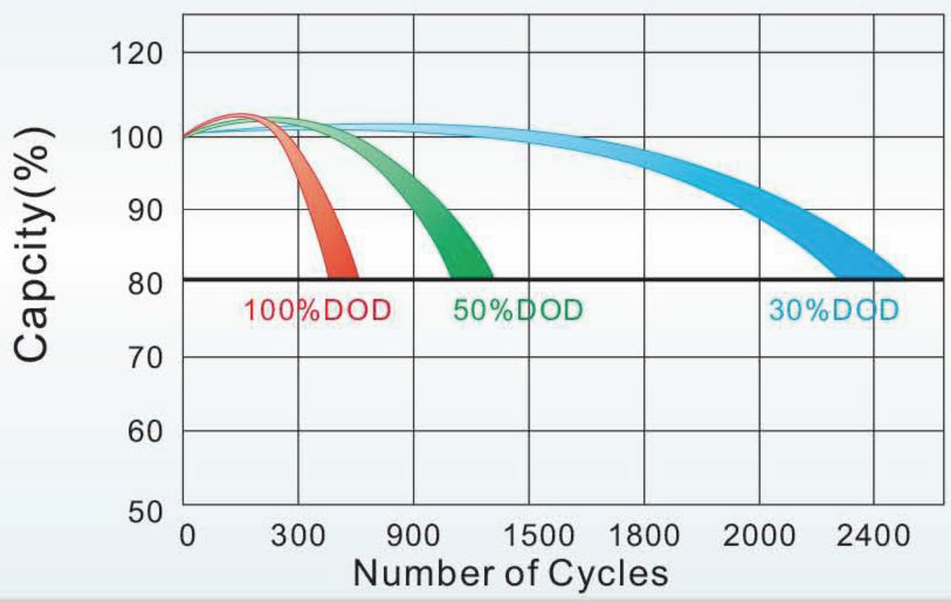
Charge Characteristics for Float Use @ 25°C/77°F



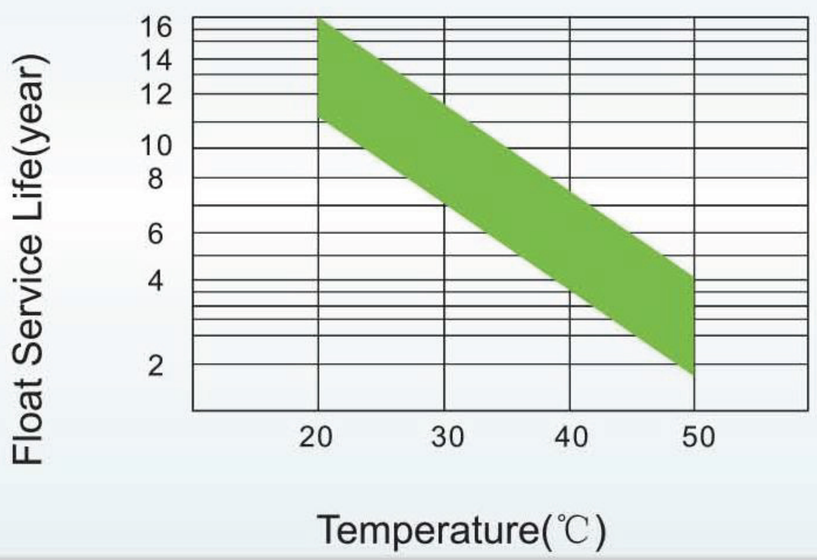
Discharge Characteristics at Various Rates @ 25°C/77°F



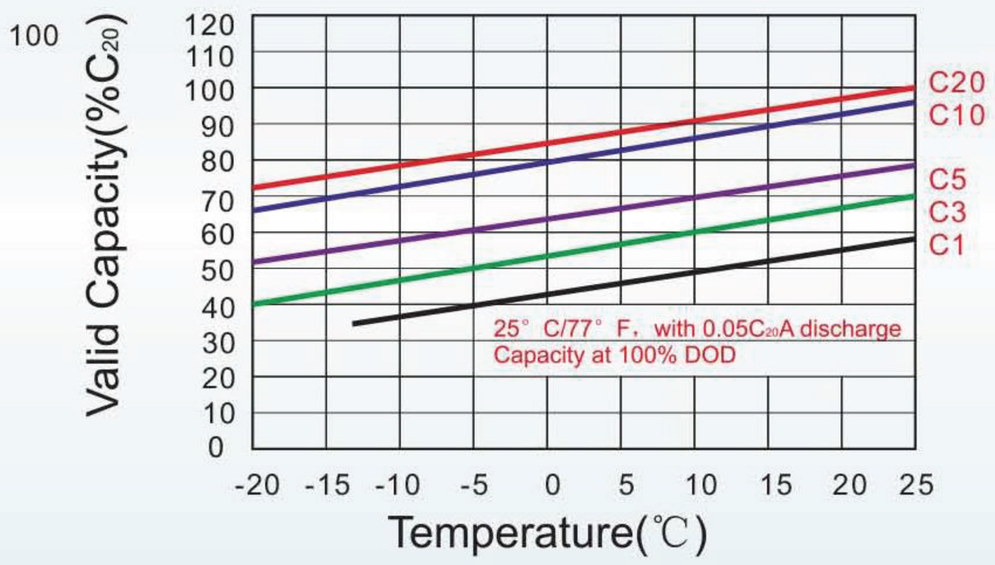
Cycle Life in Relation to Depth of Discharge



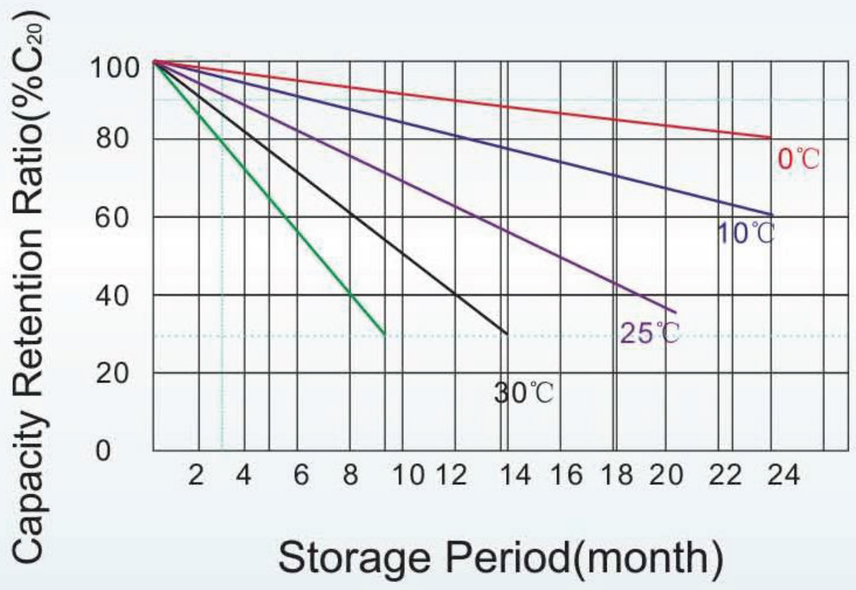
Float Service Life



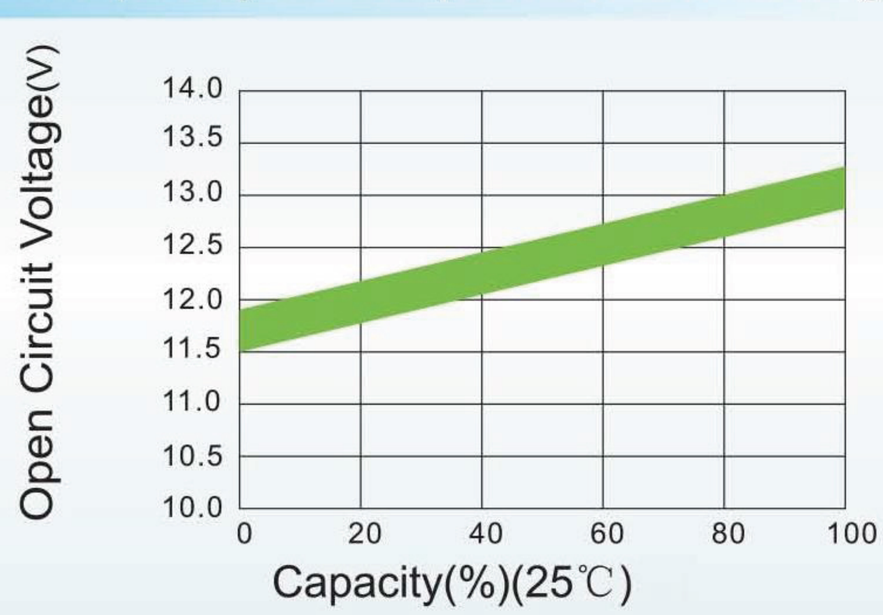
Temperature and Valid Capacity



Self Discharge Charecteristics



Capacity and Open Circuit Voltage



Relationship between Charging Voltage and Temperature