

Guangdong Bailiwei Electronics Co., Ltd. DC 12V-120AH 12V120AH

● Deep Cycle Series Battery

DC series VRLA batteries are superior deep cycle design with thick plates, high-density active materials And Slightly stronger electrolyte, Which can withstand repeated deep cyclic applications. Deep cycle series Batteries are the special design batteries with 10 years floating design life at 25°C. Meet with IEC, UL(MH62092),CE approved.

● Application

- * Emergency Power System
- * Power tools
- * Generator
- * Communication equipment
- * Alarm system
- * Marine equipment
- * Telecommunication systems
- * Medical equipment
- * Uninterruptible power supplies
- * Fire and Security System
- * Electric toy car and wheelchairs, etc.



● General Features

- * Heavy Duty Grid
- * Mechanized assembly
- * Non-spillable construction
- * High Reliability and Stability

● Construction

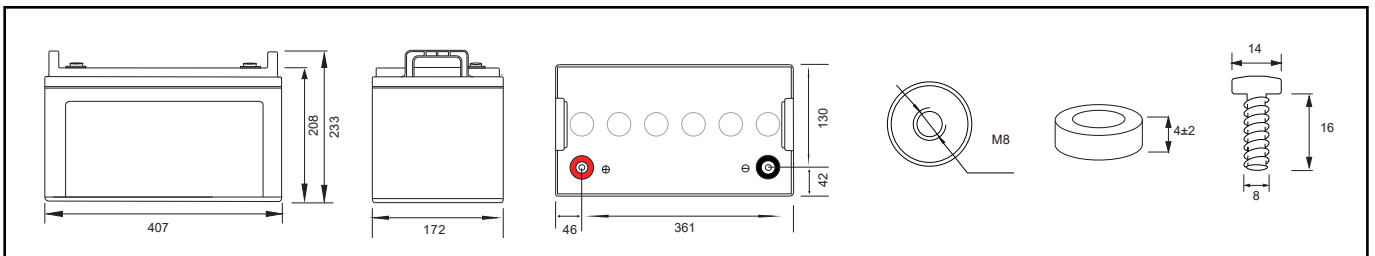
- * Positive
- Lead dioxide
- * Negative
- Lead
- * Electrolyte
- Sulfuric acid
- * Safety Valve
- EPDR
- * Separator
- Fiber glass
- * Terminal
- Copper
- * Container
-ABS(UL94-HB) / Flame Retardant ABS (UL94-V0)

● Specification

Battery Model	Nominal Voltage		12V	
	Rated capacity (10 Hour rate)		120Ah	
	Cells Per battery		DC 12V-120AH	
Dimension	Length	Width	Height	Total Height
	407mm (16.02 inches)	172mm (6.77 inches)	208mm (8.18 inches)	233mm (9.17 inches)
Approx Weight	32kg (63.lbs) ± 3%			
Capacity @ 25°C (77°F)	20 hour rate(10.5V)	10 hour rate(10.8V)	5 hour rate(10.5V)	1 hour rate(9.6V)
	125.0Ah	120.0Ah	106.78Ah	72.0Ah
Max.discharge current	1200A (5 Sec.)			
Full charged at 25°C(77°F): Approx 4.2mΩ				
Capacity affected by Temp.(20 HR)	40°C (104°F)	25°C (77°F)	0°C (32°F)	-15°C (5°F)
	102%	100%	85%	65%
Self Discharge @25°C (77°F)	After 3 months storage		After 6 months storage	After 12 months storage
	98%		94%	74%
Charge method @25°C (77°F)	Cycle Use		Float Use	
	14.40-14.7V (Initial charging current less than 36A)		13.50-13.80V	

● Outer dimension (mm)

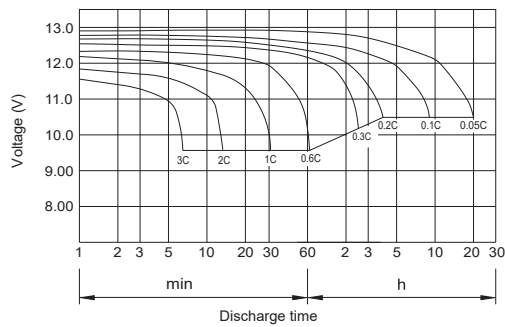
● Terminal Type (mm)



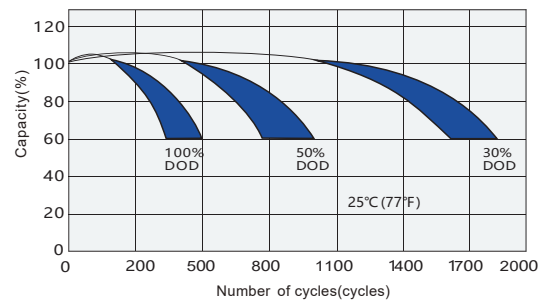
Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25°C (77°F)											
F.V\TIME		15MIN	30MIN	60MIN	90MIN	2 HR	3HR	5HR	8HR	10HR	20HR
1.60V/cell	A	187.600	121.000	72.000	52.696	44.421	31.643	21.594	15.290	12.452	6.868
	W	362.068	241.032	143.640	105.217	88.879	63.311	43.207	30.593	24.914	13.742
1.67V/cell	A	177.855	118.415	71.478	52.174	44.200	31.477	21.475	15.161	12.258	6.525
	W	343.527	236.000	142.609	104.202	88.511	63.093	43.046	30.398	24.577	13.082
1.70V/cell	A	173.469	117.380	70.957	52.122	44.089	31.397	21.470	15.009	12.103	6.351
	W	335.316	233.946	141.739	104.139	88.326	62.951	43.047	30.109	24.280	12.740
1.75V/cell	A	166.160	115.312	69.913	51.443	43.813	31.200	21.356	14.968	12.059	6.250
	W	321.520	229.992	140.000	102.887	87.757	62.587	42.841	30.048	24.140	12.547
1.80V/cell	A	159.338	112.726	69.391	51.078	43.536	31.034	21.297	14.839	12.000	6.044
	W	308.797	224.936	139.130	102.412	87.220	62.285	42.743	29.811	24.000	12.142

Note: The above datas are average values. (Edition 2023-07)

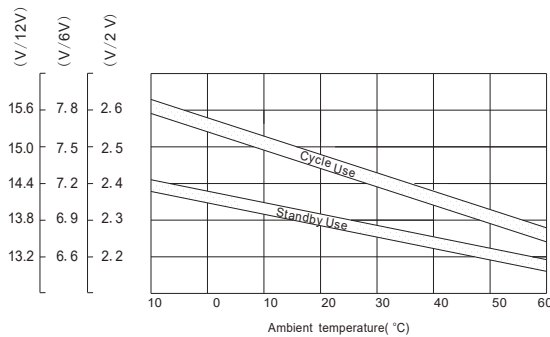
Discharge characteristic Curve



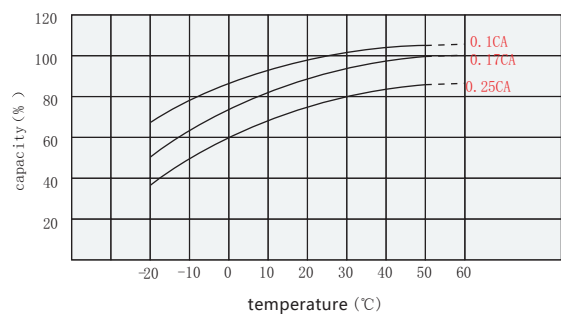
Cycle service life in relation to depth of discharge



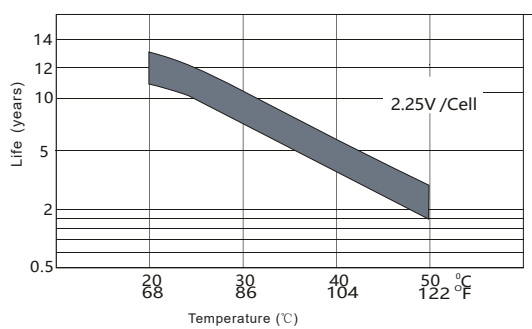
Relationship between charging voltage and temperature



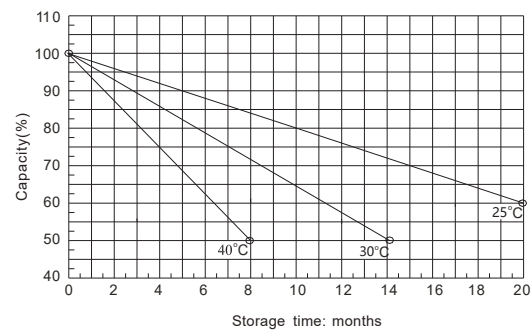
Relationship between temperature and capacity



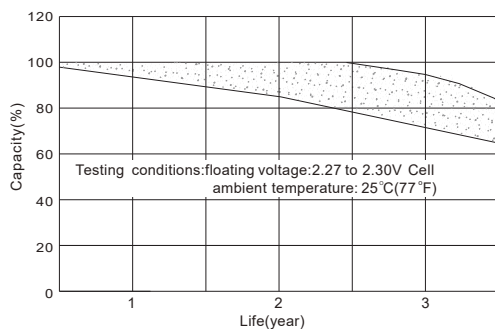
Temperature effects on float life



Self-discharge characteristic



Life characteristics of standby use



Charge characteristic Curve for standby use

