

DB12-250

12V 250Ah(10hr)

The rechargeable batteries are lead-lead dioxide systems. The dilute sulfuric acid electrolyte is absorbed by separators and plates and thus immobilized. Should the battery be accidentally overcharged producing hydrogen and oxygen, special one-way valves allow the gases to escape thus avoiding excessive pressure build-up. Otherwise, the battery is completely sealed and is, therefore, maintenance-free, leak proof and usable in any position.

Battery Construction

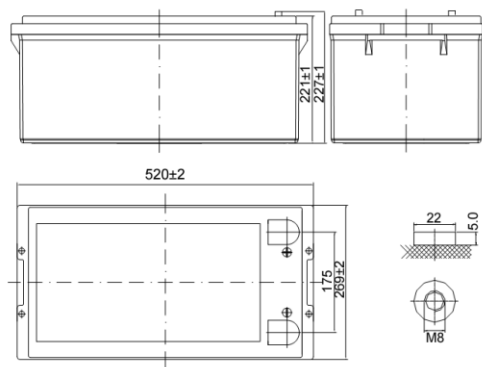
Component	Positive plate	Negative plate	Container	Cover	Safety valve	Terminal	Separator	Electrolyte
Raw material	Lead dioxide	Lead	ABS	ABS	Rubber	Copper	Fiberglass	Sulfuric acid

General Features

- Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance or water adding.
- Not restricted for air transport-complies with IATA/ICAO Special Provision A67.
- UL-recognized component.
- Can be mounted in any orientation.
- Computer designed lead, calcium tin alloy grid for high power density.
- Long service life, float or cyclic applications.
- Maintenance-free operation.
- Low self discharge.

Dimensions and Weight

Length(mm / inch)	520 / 20.47
Width(mm / inch)	269 / 10.59
Height(mm / inch)	221 / 8.70
Total Height(mm / inch)	227 / 8.91
Approx. Weight(Kg / lbs)	72 / 158.73



Performance Characteristics

Nominal Voltage	12V
Number of cell	6
Design Life	10 years
Nominal Capacity 77°F(25°C)	
10 hour rate (25.0A, 10.8V)	250Ah
5 hour rate (42.50A, 10.8V)	212.5Ah
1 hour rate (146.0A,10.5V)	146.0Ah
Internal Resistance	
Fully Charged battery 77°F(25°C)	≤3.5mOhms
Self-Discharge	
3% of capacity declined per month at 25°C(average)	
Operating Temperature Range	
Discharge	-20~60°C
Charge	-10~55°C
Storage	-10~50°C
Max. Discharge Current 77°F(25°C)	2500A(5s)
Short Circuit Current	4500A
Charge Methods: Constant Voltage Charge 77° F(25°C)	
Cycle use	2.40-2.45VPC
Maximum charging current	75A
Temperature compensation	-30mV/°C
Standby use	2.20-2.30VPC
Temperature compensation	-20mV/°C

Discharge Constant Current (Amperes at 77 °F25 °C)

End Point Volts/Cell	15min	30min	45min	1h	3h	5h	10h
1.60V	463	274	195	160	72.3	47.2	25.6
1.65V	430	258	186	153	69.5	45.5	25.4
1.70V	415	252	182	150	68.3	44.8	25.3
1.75V	386	240	178	146	66.3	43.5	25.2
1.80V	357	229	176	142	64.2	42.5	25.0

Discharge Constant Power (Watts at 77 ° F25 °C)

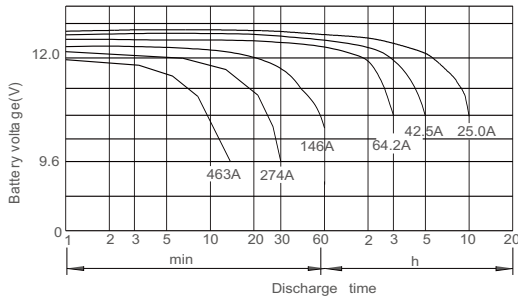
End Point Volts/Cell	15min	30min	45min	1h	2h	3h	5h
1.60V	810	497	361	300	182	135	91.0
1.65V	770	475	347	291	175	133	88.2
1.70V	747	465	343	285	172	131	87.0
1.75V	705	449	332	278	165	127	85.2
1.80V	660	434	325	268	160	123	83.2

(Note)The above characteristics data are average values obtained within three charge/discharge cycles not the minimum values.

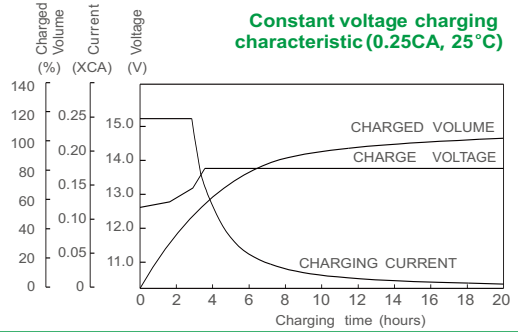
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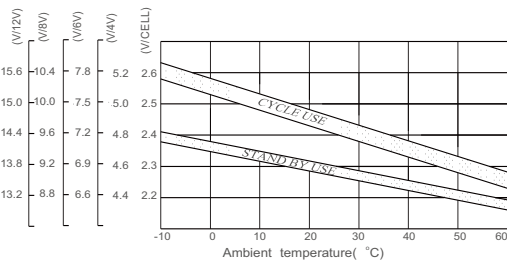
Discharge characteristic (25°C)



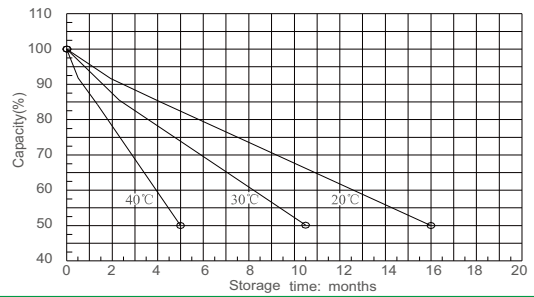
Constant voltage charging characteristic (0.25CA, 25°C)



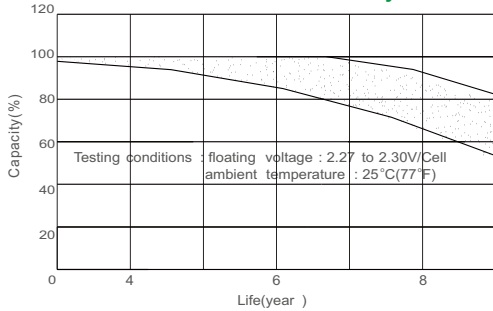
Relationship between charging voltage and temperature



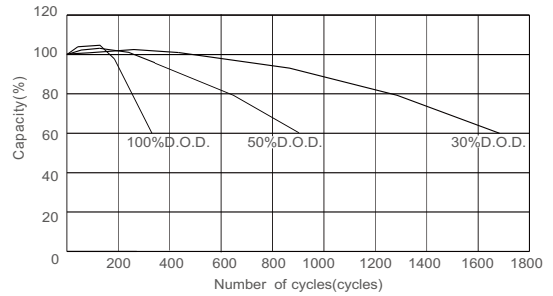
Self-discharge characteristic



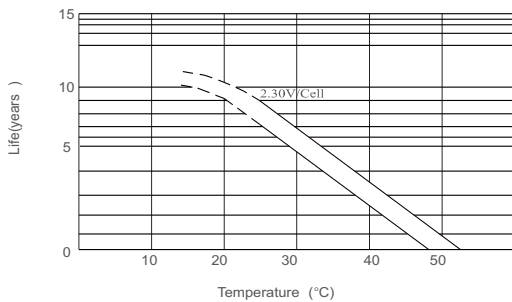
Life characteristics of Standby use



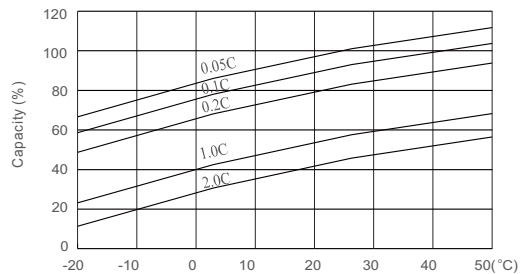
Cycle service life in relation to depth of discharge



Temperature effects on float life



Temperature effects on capacity



BARY POWER TECHNOLOGY CO., LTD

Add: HuiHuang Industrial park, Boluo County, Huizhou Guangdong China

TEL: +86-755- 2946 8760

FAX: +86-755- 2946 8760



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www.barypower.com