

Overview

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 oneway 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.
- Computer designed lead, calcium tin alloy grid for high power density.
- Long service life, float or cyclic applications.
- Maintenance-free operation.
- Low self discharge.
- Case and cover available in both standard and flame retardant ABS.

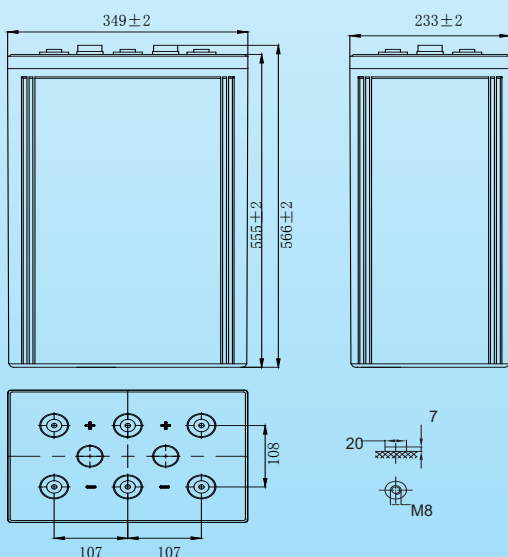
Battery Specification

Performance Characteristics	
Nominal Voltage	2V
Number of cell	1
Design Life	20 years
Nominal Capacity 77°F(25°C)	
10 hour rate (200.0A, 1.8V)	2000Ah
5 hour rate (345A, 1.75V)	1725Ah
1 hour rate (1105A, 1.75V)	1105Ah
Internal Resistance	
Fully Charged battery 77°F(25°C)	≤0.2 mOhms
Self-Discharge	
3% of capacity declined per month at 20°C (average)	
Operating Temperature Range	
Discharge	-20~60°C
Charge	-10~60°C
Storage	-20~60°C
Max. Discharge Current 77°F(25°C)	4000A(5s)
Charge Methods: Constant Voltage Charge 77°F(25°C)	
Cycle use	2.40-2.45VPC
Maximum charging current	500A
Temperature compensation	-5.0mV/°C
Standby use	2.20-2.30VPC
Temperature compensation	-3.3mV/°C

Dimensions and Weight

Length(mm / inch)	349/13.74
Width(mm / inch)	233/9.17
Height(mm / inch)	555/21.85
Total Height(mm / inch)	566/22.28
Approx. Weight(Kg / lbs)	113/249.1

* Weight deviation: ± 3%



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

End Point Volts/Cell	15min	30min	45min	1h	2h	3h	5h	10h
1.60	2500	1650	1395	1130	690	520	360	216
1.65	2260	1600	1360	1120	680	515	355	213
1.70	2100	1540	1320	1110	670	510	350	210
1.75	1850	1480	1240	1105	660	505	345	206
1.80	1600	1310	1170	1102	650	502	340	200

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

End Point Volts/Cell	15min	30min	45min	1h	2h	3h	5h	10h
1.60	3850	3100	2460	1905	1200	920	670	390
1.65	3600	2900	2320	1880	1180	900	650	380
1.70	3300	2700	2240	1850	1150	880	630	370
1.75	3100	2400	2100	1700	1140	850	605	350
1.80	2900	2200	1950	1600	1120	830	550	310

(Note)The above characteristics data are average values obtained within three charge/discharge cycles not the minimum values.All data shall be changed without notice,Vision reserves the right to explain and update the information contained hereinto.

