

## 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.

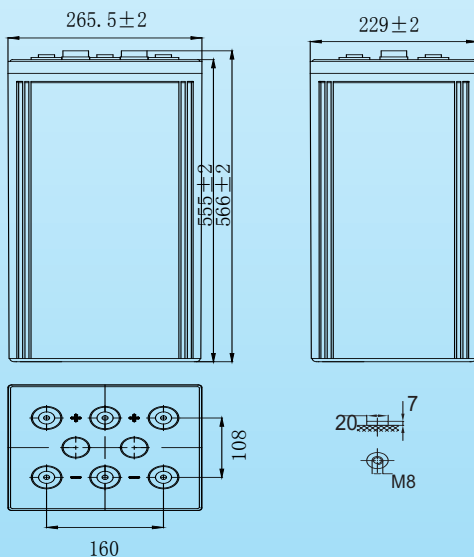
## Battery Specification

Performance Characteristics	
Nominal Voltage	2V
Number of cell	1
Design Life	20 years
Nominal Capacity 77°F(25°C)	
10 hour rate (150.0A, 1.8V)	1500Ah
5 hour rate (257A, 1.75V)	1285Ah
1 hour rate (828A, 1.75V)	828Ah
Internal Resistance	
Fully Charged battery 77°F(25°C)	≤0.3 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	375A
Temperature compensation	-5.0mV/°C
Standby use	2.20-2.30VPC
Temperature compensation	-3.3mV/°C

## Dimensions and Weight

Length(mm / inch)	265.5/10.45
Width(mm / inch)	229/9.02
Height(mm / inch)	555/21.85
Total Height(mm / inch)	566/22.28
Approx. Weight(Kg / lbs)	86/189.6

\* 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	1800	1230	1040	840	510	395	270	161
1.65	1695	1190	1010	835	505	390	265	159
1.70	1580	1150	970	830	500	385	260	156
1.75	1380	1100	930	828	495	380	257	153
1.80	1290	980	880	826	490	376	255	150

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

End Point Volts/Cell	15min	30min	45min	1h	2h	3h	5h	10h
1.60	2860	2250	1780	1450	880	680	480	305
1.65	2680	2130	1730	1410	870	670	470	295
1.70	2470	1990	1680	1370	845	660	460	280
1.75	2330	1780	1510	1250	835	630	440	270
1.80	2180	1640	1400	1180	830	620	410	240

(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.

