

## 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.

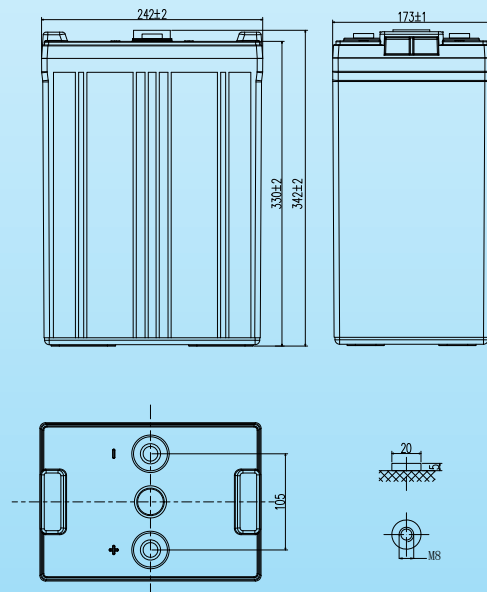
## Battery Specification

Performance Characteristics	
Nominal Voltage	2V
Number of cell	15 years
Design Life	
Nominal Capacity 77°F ( 25°C)	
10 hour rate (60.0A, 1.8V)	600Ah
5 hour rate (102A, 1.75V)	510Ah
1 hour rate (354A, 1.6V)	354Ah
Internal Resistance	
Fully Charged battery 77°F ( 25°C)	≤0.4mOhms
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)	2500A(5s)
Charge Methods: Constant Voltage Charge 77°F ( 25°C)	
Cycle use	2.40-2.45VPC
Maximum charging current	100A
Temperature compensation	-5.0mV/°C
Standby use	2.20-2.30VPC
Temperature compensation	-3.3mV/°C

## Dimensions and Weight

Length(mm / inch)	242/9.35
Width(mm / inch)	173/6.81
Height(mm / inch)	330/12.99
Total Height(mm / inch)	342/13.46
Approx. Weight(Kg / lbs)	31.5/69.5

\* Weight deviation: ± 3%



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

End Point	Volts/Cell							
	15min	30min	45min	1h	3h	5h	10h	
1.60V	-	545	440	354	166	108	60.8	
1.65V	-	520	427	346	162	106	60.6	
1.70V	-	496	408	338	158	104	60.4	
1.75V	-	470	390	330	154	102	60.2	
1.80V	-	444	370	320	150	100	60.0	

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

End Point	Volts/Cell						
	15min	30min	45min	1h	2h	3h	5h
1.60V	-	991	756	626	426	316	199
1.65V	-	941	762	599	417	308	196
1.70V	-	890	724	572	406	300	193
1.75V	-	839	684	545	393	291	189
1.80V	-	787	644	514	369	273	186

(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.

