

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 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.
- 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.

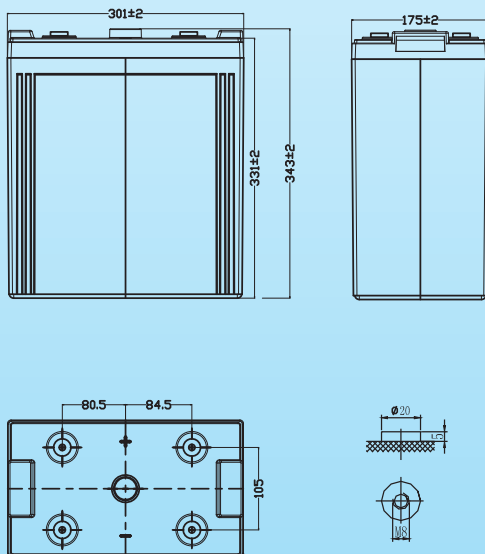
Battery Specification

Performance Characteristics	
Nominal Voltage	2V
Number of cell	1
Design Life	15 years
Nominal Capacity 77°F (25°C)	
10 hour rate (80.0A, 1.8V)	800Ah
5 hour rate (136A, 1.75V)	680Ah
1 hour rate (470A, 1.6V)	470Ah
Internal Resistance	
Fully Charged battery 77°F (25°C)	≤0.4 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)	3000A(5s)
Charge Methods: Constant Voltage Charge 77°F (25°C)	
Cycle use	2.40-2.45VPC
Maximum charging current	160A
Temperature compensation	-5.0mV/°C
Standby use	2.20-2.30VPC
Temperature compensation	-3.3mV/°C

Dimensions and Weight

Length(mm / inch)	301/11.85
Width(mm / inch)	175/6.89
Height(mm / inch)	331/13.03
Total Height(mm / inch)	343/13.50
Approx. Weight(Kg / lbs)	43.0 /94.8

* Weight deviation: ± 3%



Discharge Constant Current (Amperes at 77°F/25°C)

End Point Volts/Cell	Time									
	15min	30min	45min	1h	2h	3h	5h	10h		
1.60V	---	722	576	470	288	220	145	80.8		
1.65V	---	691	554	460	282	215	142	80.6		
1.70V	---	659	530	450	276	210	139	80.4		
1.75V	---	626	516	440	270	205	136	80.2		
1.80V	---	592	496	426	264	200	133	80.0		

Discharge Constant Power (Watts at 77°F/25°C)

End Point Volts/Cell	Time									
	15min	30min	45min	1h	2h	3h	5h	10h		
1.60V	---	1266	968	809	532	398	273	155		
1.65V	---	1203	924	774	516	381	268	154		
1.70V	---	1139	878	739	498	365	263	153		
1.75V	---	1072	830	702	482	347	257	152		
1.80V	---	1006	782	664	465	331	244	151		

(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 herein.

