

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

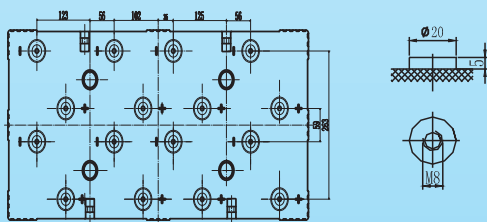
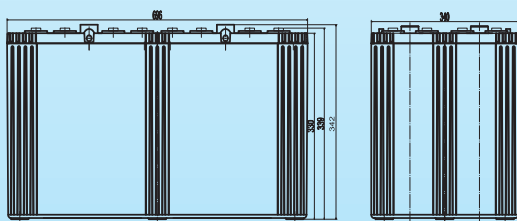
General Features

- 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.

Dimensions and Weight

Length(mm / inch)	696/27.40
Width(mm / inch)	340/13.39
Height(mm / inch)	330/13.0
Total Height(mm / inch)	342/13.46
Approx. Weight(Kg / lbs)	168 /370.4

* Weight deviation: ± 3%



Battery Specification

Performance Characteristics	
Nominal Voltage	2V
Number of cell	1
Design Life	15 years
Nominal Capacity 77°F(25°C)	
10 hour rate (300A, 1.8V)	3000Ah
5 hour rate (510A, 1.75V)	2500Ah
1 hour rate (1800A, 1.6V)	1800Ah
Internal Resistance	
Fully Charged battery 77°F(25°C)	≤0.20mOhms
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)	
7000A(5s)	
Charge Methods: Constant Voltage Charge 77°F(25°C)	
Cycle use	2.40-2.45VPC
Maximum charging current	600A
Temperature compensation	-5.0mV/°C
Standby use	2.20-2.30VPC
Temperature compensation	-3.3mV/°C

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

End Point Volts/Cell	Time							
	15min	30min	45min	1h	2h	3h	5h	10h
1.60V	----	2690	2156	1800	1083	810	540	320
1.65V	----	2571	2077	1750	1052	795	530	315
1.70V	----	2448	1995	1700	1023	780	520	310
1.75V	----	2321	1908	1650	986	765	510	305
1.80V	----	2191	1820	1600	953	750	500	300

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

End Point Volts/Cell	Time							
	15min	30min	45min	1h	2h	3h	5h	10h
1.60V	----	4036	3129	2678	1836	1381	930	595
1.65V	----	3857	3004	2606	1815	1347	915	590
1.70V	----	3679	2879	2533	1748	1311	899	585
1.75V	----	3501	2754	2460	1673	1271	882	581
1.80V	----	3323	2629	2387	1593	1241	843	576

(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.

