

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

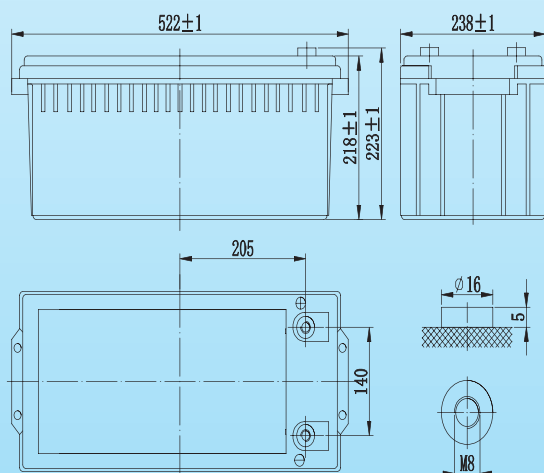
General Features

- 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.
- Can be mounted in any orientation.
- 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)	522 / 20.55
Width(mm / inch)	238 / 9.37
Height(mm / inch)	218 / 8.58
Total Height(mm / inch)	223 / 8.78
Approx. Weight(Kg / lbs)	65 / 143.3

* Weight deviation: $\pm 3\%$



Battery Specification

Performance Characteristics	
Nominal Voltage	12V
Number of cell	6
Design Life	10 years
Nominal Capacity 77°F (25°C)	
10 hour rate (10.0A, 10.8V)	200Ah
5 hour rate (36.0A, 10.5V)	180Ah
1 hour rate (128A, 9.6V)	128Ah
Internal Resistance	
Fully Charged battery 77°F (25°C)	
Self-Discharge	≤ 3.5 mOhms
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)	1000A(5s)
Short Circuit Current	3300A
Charge Methods: Constant Voltage Charge 77°F (25°C)	
Cycle use	14.4-14.7V
Maximum charging current	60.0A
Temperature compensation	-30mV/°C
Standby use	13.6-13.8V
Temperature compensation	-20mV/°C

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

End Point							
Volts/Cell	15min	30min	45min	1h	3h	5h	10h
1.60V	360	220	159	128	57.6	38.2	20.4
1.65V	360	212	153	124	55.6	37.2	20.3
1.70V	337	206	149	120	55.0	36.6	20.2
1.75V	319	200	145	117	53.4	36.0	20.1
1.80V	269	187	140	114	51.0	35.4	20.0

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

End Point							
Volts/Cell	15min	30min	45min	1h	2h	3h	5h
1.60V	625	402	294	230	139	109	73.0
1.65V	604	390	286	225	137	107	72.0
1.70V	586	382	279	221	134	105	71.2
1.75V	578	372	274	217	130	101	70.2
1.80V	554	364	270	215	127	98.0	69.3

(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.

