

## 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

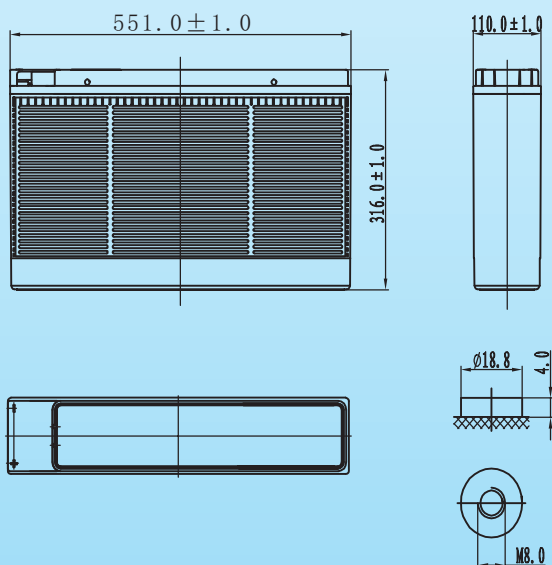
## General Features

- 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)	551 / 21.7
Width(mm / inch)	110 / 4.33
Height(mm / inch)	316 / 12.4
Total Height(mm / inch)	316 / 12.4
Approx. Weight(Kg / lbs)	51.5 / 113.6

\* Weight deviation:  $\pm 3\%$



## Battery Specification

Performance Characteristics	
Nominal Voltage	12V
Number of cell	6
Design Life	10years
Nominal Capacity 77°F(25°C)	
10 hour rate (15.5A, 10.8V)	155Ah
5 hour rate (28.4A, 10.5V)	142Ah
1 hour rate (110A, 9.6V)	110Ah
Internal Resistance	
Fully Charged battery 77°F(25°C)	$\leq 4.5\text{mOhms}$
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)	1050A(5s)
Short Circuit Current	2650A
Charge Methods: Constant Voltage Charge77°F(25°C)	
Cycle use	2.40-2.45VPC
Maximum charging current	46.5A
Temperature compensation	-30mV/°C
Standby use	2.20-2.30VPC
Temperature compensation	-20mV/°C

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

End Point								
Volts/Cell	10min	15min	30min	45min	1h	3h	5h	10h
1.60V	315	274	181	139	110	47.6	29.0	15.9
1.65V	290	256	174	135	108	46.7	28.8	15.8
1.70V	265	237	166	131	106	45.8	28.6	15.7
1.75V	240	218	160	127	104	44.9	28.4	15.6
1.80V	215	199	152	122	101	43.9	28.2	15.5

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

End Point								
Volts/Cell	10min	15min	30min	45min	1h	2h	3h	5h
1.60V	506	439	303	234	194	121	89.1	58.0
1.65V	487	426	297	231	192	120	88.2	57.5
1.70V	468	413	291	227	190	119	87.3	56.9
1.75V	448	400	285	223	188	118	86.3	56.3
1.80V	428	387	278	219	185	116	85.3	55.7

(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.



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Shenzhen Center Power  
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# CT12-155X

12V 155Ah(10hr)

