

### 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

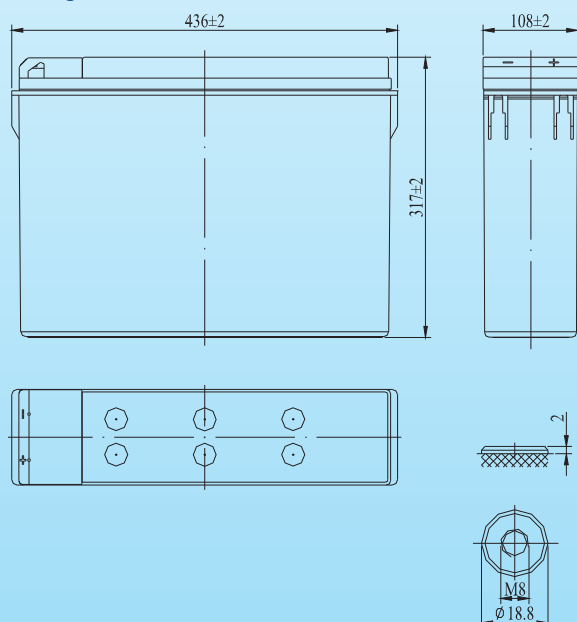
### General Features

- 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)	436 / 17.2
Width(mm / inch)	108 / 4.25
Height(mm / inch)	317 / 12.5
Total Height(mm / inch)	317 / 12.5
Approx. Weight(Kg / lbs)	40 / 88.2

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



### Battery Specification

Performance Characteristics	
Nominal Voltage	12V
Number of cell	6
Design Life	15years
Nominal Capacity 77°F(25°C)	
10 hour rate (12.5A, 10.8V)	125Ah
5 hour rate (23.0A, 10.5V)	115Ah
1 hour rate (85A, 9.6V)	85Ah
Internal Resistance	
Fully Charged battery 77°F ( 25°C)	≤6.3mOhms
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)	950A(5s)
Short Circuit Current	2250A
Charge Methods: Constant Voltage Charge77°F(25°C)	
Cycle use	2.40-2.45VPC
Maximum charging current	37.5A
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	255	211	138	103	85.0	35.2	23.5	12.9
1.65V	237	200	134	101	83.8	34.9	23.3	12.8
1.70V	219	188	131	99.0	82.5	34.6	23.2	12.7
1.75V	201	177	127	97.0	81.3	34.3	23.0	12.6
1.80V	183	165	123	95.0	80.0	34.0	22.8	12.5

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

End Point								
Volts/Cell	10min	15min	30min	45min	1h	2h	3h	5h
1.60V	450	376	252	192	157	90.8	66.1	44.2
1.65V	428	361	246	188	154	89.3	65.4	43.9
1.70V	406	347	239	184	150	87.9	64.7	43.6
1.75V	383	333	232	179	147	86.4	63.9	43.2
1.80V	361	318	225	175	144	85.0	63.2	42.9

(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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# CT12-125X

12V125Ah(10hr)

