

# 6FM50D 12V 50Ah(20hr)

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

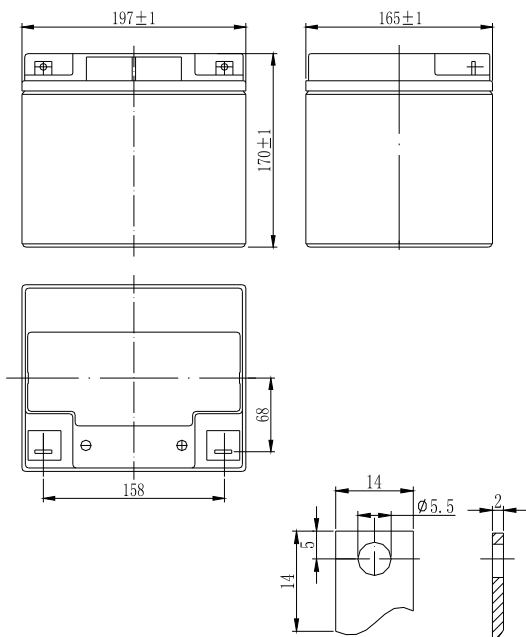
Component	Positive plate	Negative plate	Container	Cover	Safety valve	Terminal	Separator	Electrolyte
Raw material	Lead dioxide	Lead	ABS	ABS	Rubber	Copper	Fiberglass	Sulfuric acid

## 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.
- 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.

## Dimensions and Weight

Length(mm / inch).....197 / 7.76  
 Width(mm / inch).....165 / 6.50  
 Height(mm / inch).....170 / 6.69  
 Total Height(mm / inch).....170 / 6.69  
 Approx. Weight(Kg / lbs).....13.8 / 30.4



## Performance Characteristics

Nominal Voltage .....12V  
 Number of cell .....6  
 Design Life .....10 years  
 Nominal Capacity 77°F(25°C)  
     20 hour rate (2.5A, 10.5V) ..... 50Ah  
     10 hour rate (5.0A, 10.5V) ..... 47Ah  
     5 hour rate (8.5A, 10.5V) ..... 42.50Ah  
     1 hour rate (35A, 9.6V) ..... 34.90Ah  
 Internal Resistance  
     Fully Charged battery 77°F(25°C) ..... 7.5mOhms  
 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) .....450A(5s)  
 Short Circuit Current ..... 1050A  
 Charge Methods: Constant Voltage Charge 77°F(25°C)  
     Cycle use ..... 14.4-14.7V  
         Maximum charging current ..... 13.5A  
         Temperature compensation ..... -30mV/°C  
     Standby use ..... 13.6-13.8V  
         Temperature compensation ..... -20mV/°C

