



**EV12-255**

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**

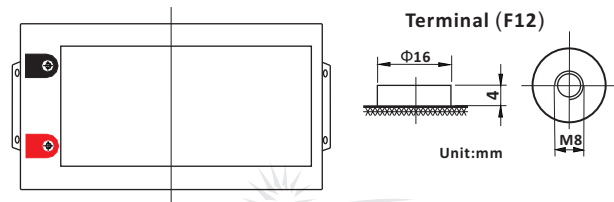
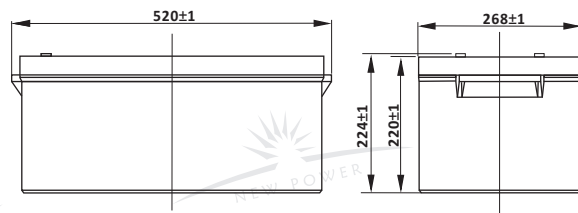
COMPONENT Raw material	POSITIVE PLATE Lead dioxide	NEGATIVE PLATE Lead	CONTAINER ABS	COVER ABS	SAFETY VALVE Rubber	TERMINAL Copper	SEPARATOR Fiberglass	ELECTROLYTE Sulfuric acid
---------------------------	--------------------------------	------------------------	------------------	--------------	------------------------	--------------------	-------------------------	------------------------------

**Performance Characteristics**

- **Nominal Voltage** ..... 12V
- **Ampere Hour Capacity**
  - 20 Hours rate (13.75A, 10.8V)..... 275Ah
  - 10 Hours rate (25.5A, 10.8V)..... 255Ah
  - 5 Hours rate (47.0A, 10.5V)..... 235Ah
  - 3 Hours rate (70A, 10.2V) ..... 210Ah
- **Minutes of Discharge**
  - 25A to 10.8V..... 615    56A to 10.2V..... 255
  - 75A to 10.2V..... 176    85A to 10.2V..... 152
  - 100A to 10.2V..... 124
- **Cranking Amps**
  - 32°F/0°C ..... 1650    0°F/-18°C ..... 1370
- **Internal Resistance**
  - Fully charged battery (77°F /25°C)..... 2.4mΩ
- **Self-Discharge (68°F /20°C)**
  - Capacity declined per month ..... 3%
- **Opening temperature Range**
  - Discharge..... -20 ~ 60°C
  - Charge..... -10 ~ 50°C
  - Storage..... -20 ~ 60°C
- **Max. discharge current (77°F /25°C)** ..... 2550A(5S)
- **Short Circuit Current**..... 5000A
- **Charge Methods: constant voltage charge (77°F /25°C)**
  - Cycle use..... 14.7 ~ 14.9V
  - Max. Current ..... 51.0A
  - Standby use..... 13.6 ~ 13.8V

**General Features**

- **Environmental friendly**
- **α-DC technology**
- **Computer-aided 99.99% pure heavy-duty lead calcium grid design**
- **Anchored plate groups to guard against vibration**
- **Tank formed plates for evenly formed and capacity matched plates**
- **Wide operating temperatures (-40° to 60°)**
- **Industry leading size and performance options**
- **Double insulating Micro porous glass fiber separators**
- **Flame arresting pressure regulated safety sealing valves for safety**
- **Low self discharge rates (1-3%/month)**
- **Multi-terminal options**
- **Removable carry handles**
- **Classified as "Non-Spillable Battery" for transport**
- **Complies with DOT HMR49, Non-Hazardous Material**
- **Design Life 10 years**



**Application Field**

- **Golf and Electric Vehicles**
- **Floor Machines**
- **Aerial Lifts and Fork Lifts**
- **Solar and Renewable Energy**
- **Marine and RV**
- **Broadband and Cable TV**
- **Mobility and Medical**
- **Equipment Wheelchair**
- **Telecommunications**
- **Uninterruptible Power Supply**

**Dimensions and Weight**

Type	Length	Width	Height	Total Height	Approx. Weight
SI Units	520mm	268mm	220mm	224mm	77Kg
English Units	20.5inch	10.6inch	8.66inch	8.82inch	170lbs

