



**Gruber  
Power  
Services**

# Premium High Rate Battery Series

**Sealed Lead Acid Battery**

**12 Volt - 12 Amp Hour**

**GPS12-12**



## Features

- Lead alloy with low calcium minimizes gassing and extends life of grid.
- Through unique active material recipes, plates after undergoing curing and tank formation provide outstanding energy density and ensure the quality of the battery.
- Using brass coated lead alloy battery terminals minimizes impedance of connecting cells inside.
- Case made of ABS resin and cells kept under internal pressure protects from outer shock or impact.
- Micro-porous AGM separator completely absorbs and retains electrolyte under the pressured cell design.
- Electrolyte sufficiently serves for electrochemical reactions in battery but never spills.
- Battery cases are sealed in epoxy and cells are covered with vents to avoid cell contamination with the atmosphere and serve for internal oxygen reaction.
- With very little gas evolution, the water loss is minimized and service life is extended. Excess pressure and gas will be released which ensures safety.
- Vent design is certificated by UL.

## Applications

- UPS
- Communications
- Lighting
- Security & Alarm
- Medical Equipment
- Remote Monitoring
- Solar Energy Station
- Golf Carts
- Wheelchairs
- Motorcycles
- Scooters
- Riding Mowers
- Snowmobiles
- Water Sports

## Transport

- Air transportation complies with IATA/ICAO special provision A67.
- Surface transport classification as non-hazardous material as related to DOT-49CFR173.159.
- Water transport classification as non-hazardous material per IMDG Amendment 27.

## Specifications

### Nominal Voltage (V)

12V

### Nominal Capacity

20hour rate ( 0.6A to 10.50V )	12Ah
10hour rate ( 1.2A to 10.50V )	12Ah
5hour rate ( 2.04A to 10.20V )	10.2Ah
1C ( 12A to 9.60V )	5.4Ah
3C ( 36A to 9.60V )	4.32Ah

### Weight:

4.27kg(9.39Lbs.)

### Internal Resistance (at 1KHz)

13 mΩ

### Maximum Discharge Current for 30 seconds :

240A

### Maximum Discharge Current for 5 seconds :

480A

### Operating Temperature Range

Charge	0°C (32°F) to 40°C (104°F)
Discharge	-15°C (5°F) to 50°C (122°F)
Storage	-15°C (5°F) to 40°C (104°F)

### Charge Retention (shelf life) at 20°C (68°F)

1 month	92%
3 month	90%
6 month	80%

### Charging Methods at 25°C (77°F)

#### Cycle use:

Charging Voltage 14.4 to 15.0V  
Maximum Charging Current: 3.6A

#### Standby use :

Float Charging Voltage 13.50 to 13.80V

### Life expectancy :

#### Cycle Use:

100% depth of discharge 200 cycles  
80% depth of discharge 225 cycles  
50% depth of discharge 500 cycles

#### Standby Use: 3~5years

### Case Material ABS

(Option: 94-HB & 94V-0 flame retardant case)

**Terminal:** F1 or F2

**UL Listing:** MH29055, 94 VO

mm(inch)

