



# GEL12-33 (12V33Ah)

VRLA GEL / Non-Spillable / Maintenance-Free Battery

LONGWAY Gel Battery is a maintenance-free sealed lead-acid battery. LONGWAY gel battery has a proprietary colloidal electrolyte formula, optimized grid alloy, and solid grid structure design. It has significant features such as long service life, safety and reliability, strong resistance to overcharge and over-discharge, and excellent storage performance. 100 % DOD cycle life can reach more than 500 times. LONGWAY gel batteries can provide safe and reliable performance in various harsh environments through excellent performance and long battery life design.



## General Feature

- Sealed structure design, the electrolyte is in a gel state, no flow and no stratify;
- Thickened plate design, special high-tin-low-calcium alloy, reinforced rib design;
- Good charge acceptance ability, strong over-discharge resistance, and strong recovery ability after over-discharge;
- Low self-discharge rate and good storage capacity;
- High-quality colloid formulated with high-purity fumed silica;
- PVC-SiO<sub>2</sub> special gel battery microporous separator with small internal resistance and high porosity;
- Best cycle life, 100% DOD life more than 500 times.

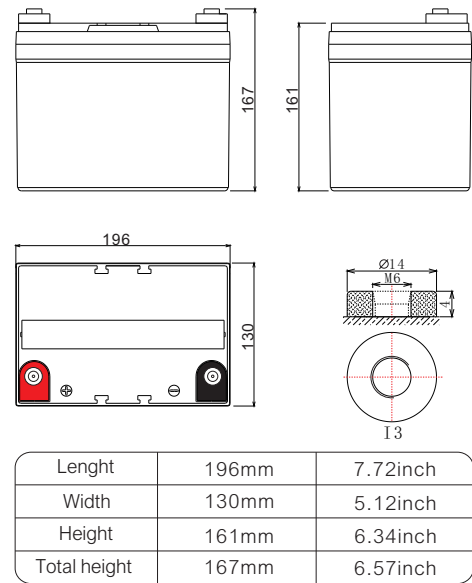
## Applications

- Electric wheelchair
- Electric car
- Electric scooter
- Police patrol car
- Golf cart
- Ship system
- Solar and energy storage systems

## Performance

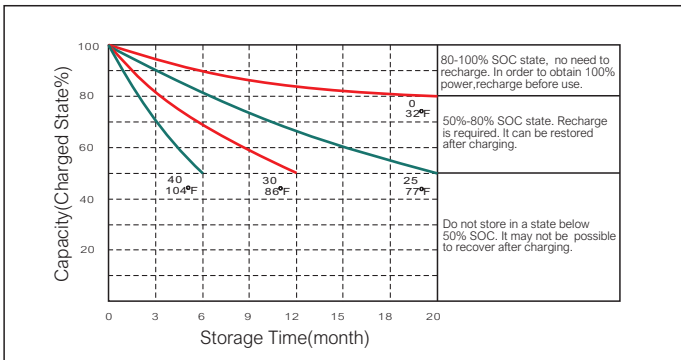
Nominal Voltage	12V (6cell)
Capacity	@25°C
20hr Rate (1.65A)	33.0Ah @ to 1.75V/cell
5hr Rate (5.40A)	27.0Ah @ to 1.70V/cell
Weight	Approx (10.0 ± 3%)kg (22.0lbs)
Internal Resistance	Approx 11.0mΩ fully charged @25°C
Cycle use	13.80~14.60V@25°C
Standby use	13.40~13.60V@25°C
Operating Temperature Range	Discharge:-20°C~60°C; Charge:0°C~50°C Storage:-20°C~60°C
Plate alloy type	Lead calcium tin aluminum alloy
Plate alloy type	Sulfuric acid and thixotropic gel
Container Material	ABS(UL94 HB)/ UL94-V0 Optional

## Dimensions

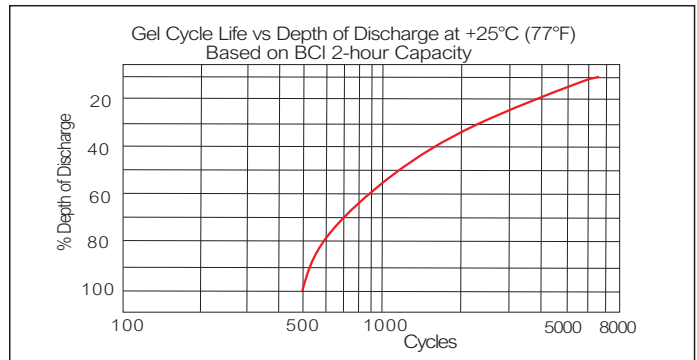


※ Referring to the BCI standard, the gel discharge battery reaches the capacity performance requirements in the table after 15 cycles.

## Self-discharge characteristic



## Cycle Life



Kaiying Power Supply & Electrical Equip Co., Ltd Email: [sales@longwaybattery.com](mailto:sales@longwaybattery.com)  
 Tel:0595-68782266 Fax:0595-68782222 Website: <http://www.longwaybattery.com>  
 Add: Kaiying Industrial Area, Chengxiang Town, Anxi, Quanzhou, Fujian Province, China  
 KY-IOP-GEL12-32 B0.Feb 2024

Note: This information usually describes use only and is not intended to make any warranties or promises regarding the battery, Battery specifications and battery design are subject to change without prior notice. Please contact LONGWAY Battery for the latest information