# VGS series

## ■ VRLA (Valve Regulated Lead Acid Battery)
## VGS 1600 (2V, 1600AH/10hr)

### ▶ Applications

- UPS System
- Communication Equipments
- URenewable Energy(Solar & Wind power)
- Medical Equipments
- Computer Back-up Power
- Security & Alarm Systems
- Power Plants
- Railroad Traffic Signals
- FA Systems

### ▶ Technical Features

**Service Life**
GLOBAL OPzV cells are designed for ≥ 20 years service life (at an ambient temperature of 20℃ with 80% residual capacity) and affords high cyclic stability.

**Installation**
Use in vertical or horizontal position from 200 Ah up to 1500 Ah cells.

**Safety**
The battery is designed with a three-layer closed structure to eliminate electrolyte leakage. It also has an internal flameproof enclosure to prevent explosions due to temporary overcharging.

**Deep Discharge Protection**
GLOBAL OPzV batteries have excellent deep discharge recovery. The batteries can be recharged to 95% capacity in 12 hours, even following 30 days connected to a load in the discharged state.

**Low Self-discharge**
The rate of self-discharge by the OPzV batteries is extremely low by comparison to normal lead batteries.

**Very low gassing due to the internal gas recombination**

### ▶ Specifications

| | | |
|---|---|---|
| Nominal Capacity (AH) | | · 1600 |
| Nominal Voltage (V) | | · 2 |
| Dimensions (L*W*H*TH) (mm) | | · 215*397*772*812 |
| Weight (kg) | | · 140.0 |
| Design life (at 20℃) | | · ≥ 20 years |
| Internal Resistance (mΩ) | | · 0.26 |
| Self Discharge (at 20℃) | | · 2.0% / Month |
| Operational Temperature range | Storage | · -15~40℃ |
| | Discharge | · -15~45℃ |
| | charge | · 0~40℃ |
| Charge voltage (at 25℃) | | · 2.22V |


### ▶ Discharge Table in Amperes

| Final Voltage | 15min | 30min | 1h | 2h | 3h | 4h | 5h | 8h | 10h | 100h |
|---|---|---|---|---|---|---|---|---|---|---|
| 1.85V / Cell | 657 | 637 | 533 | 406 | 332 | 288 | 248 | 177 | 148 | 17.7 |
| 1.80V / Cell | 881 | 786 | 652 | 477 | 379 | 329 | 281 | 189 | 160 | 19.2 |
| 1.67V / Cell | 1243 | 1050 | 830 | 557 | 433 | 352 | 295 | 198 | 165 | 19.5 |