

EXCELLENT CYCLING ABILITY

FOR
MOBILITY
SOLAR / PHOTOVOLTAIC
MARINE
TELECOMMUNICATION
APPLICATIONS



12-40G / E8GU1

GELLED VALVE REGULATED
LEAD ACID BATTERY (GVR)
FOR CYCLING APPLICATIONS

12V 33.0AH @ 20 HR RATE to 1.75VPC

12V 36.6AH @ 100 HR RATE to 1.75VPC

LONG DURATION

Innovative Features

- ☑ Exceptional energy storage capacity combined with long life - BCI Classification;
- ☑ Thick positive plate design for maximum service float life - 12 years design life @ 20°C(68°F);
- ☑ Thickness positive plate plus optimized plate alloy to anti-corrosion;
- ☑ Maintenance-free (no topping up) during the whole service life due to EverExceed GEL technology;
- ☑ Proprietary Fixed Orifice Plate Pasting technology applying active materials on both sides of the grid for consistent cell-to-cell performance, higher capacity and uniform grid protection;
- ☑ Flame-arresting one-way pressure-relief vent for safe and long life;
- ☑ Microporous rubber and corrugated PVC SiO₂ separator, the special design increase the high porosity and anti-corrosion and decrease the internal resistance;
- ☑ Electrolyte in solid gel form will not stratify no equalization charge required;
- ☑ Sulfuric acid thixotropic gel, gel powder from Europe leading supplier to ensure the unique performance of gel battery;
- ☑ Increased durability and deep cycle ability for heavy duty applications;
- ☑ Fully tank formed grid Lead Calcium Tin plate ensures voltage matching between cells;
- ☑ Shelf life up to 2 years at 20°C (68°F), very low gassing due to internal gas recombination;
- ☑ Can be used in any orientation. Upright, side or end mounting recommended;
- ☑ Unique performance against high temperature;
- ☑ UL Recognized component;
- ☑ Spill-proof and leak-proof;

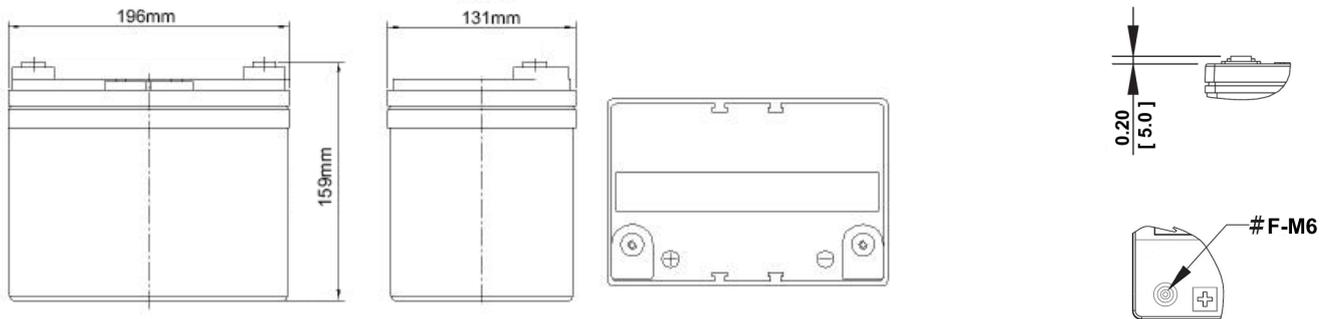
12 VOLTS - 33.0 AMPERE HOUR @ 20 HOUR RATE

AH Capacity to 1.75VPC @ 20°C (68°F)

| End Point Volts/Cell | 1.5hr | 2hr | 3hr | 4hr | 5hr | 8hr | 10hr | 12hr | 20hr | 24hr | 48hr | 72hr | 100hr |
|----------------------|-------|------|------|------|------|------|------|------|------|------|------|------|-------|
| 1.75 | 19.3 | 21.7 | 23.5 | 24.6 | 25.6 | 28.5 | 29.7 | 30.3 | 33.0 | 33.5 | 34.5 | 35.5 | 36.6 |

Deep Cycle Gel Range VALR

EverExceed[®]
power your applications



Length: 196mm Width: 131mm Height: 159mm

| Electrical Specifications | | | | | | |
|---------------------------|------------------|----------------|-------------|-------------------|-----------------------|---------------------|
| Cells Per Unit | Voltage Per Unit | Weight | Electrolyte | CCA @ -18°C (0°F) | Short Circuit Current | Ohms Imped 60 Hz(Ω) |
| 6 | 12.84 | 26.4lbs 12.0kg | SG = 1.300 | 240 Amps | 1500 Amps | 0.0073 |

| | |
|--|---|
| Capacity | 33.0 Ah @ 20 hr. rate to 1.75 volts per cell @ 20°C (68°F). 36.6 Ah @ 100 hr. rate to 1.75 volts per cell @ 20°C (68°F). |
| Applicable Operating Temperature Range | -40°C (-40°F) to +70°C (158°F). |
| Ideal Operating Temperature Range | +20°C (+68°F) to +35°C (+95°F). |
| Floating Charging Voltage | 13.5 to 13.8 VDC/unit Average at 25°C (77°F). |
| Recommended Maximum Charging Current Limit | 0.25C20 amperes (8.25 amperes @ 100% depth of discharge) @ 20 hr. rate to 1.75VPC. |
| Equalization and Cycle Service Charging Voltage | 14.1 to 14.4 VDC/unit Average at 25°C (77°F). |
| Maximum AC Ripple (Charger) | 0.5% RMS or 1.5% P-P of float charge voltage recommended for best results. Maximum voltage allowed = 1.4% RMS (4% P-P). Maximum current allowed = 1.65 amperes RMS (C/20) to 1.75VPC. |
| Self Discharge | EverExceed Deep Cycle Gel Range batteries may be stored for up to 24 months at 20°C (68°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter. |
| Accessories | Inter unit connectors racks and cabinet systems are available. |
| Terminal: Inserted | Threaded copper alloy insert terminal. |
| Terminal Hardware Initial Torque: Inserted Terminal | 9 N-m |

| Constant Power Discharging Ratings - Watts Per Cell @ 20°C (68°F) | | | | | | | | | | |
|---|-------|------|------|------|------|------|------|------|------|------|
| End Point Volts/Cell | 1.5hr | 2hr | 3hr | 4hr | 5hr | 8hr | 10hr | 12hr | 20hr | 24hr |
| 1.85 | 21.9 | 19.3 | 14.0 | 11.2 | 9.26 | 6.52 | 5.39 | 4.59 | 3.04 | 2.59 |
| 1.80 | 24.0 | 20.4 | 14.8 | 11.7 | 9.76 | 6.87 | 5.70 | 4.89 | 3.20 | 2.72 |
| 1.75 | 24.4 | 20.8 | 15.1 | 11.9 | 9.92 | 6.99 | 5.82 | 4.97 | 3.27 | 2.77 |

| Constant Current Discharging Ratings - Amperes Per Cell @ 20°C (68°F) | | | | | | | | | | | | | |
|---|-------|------|------|------|------|------|------|------|------|------|------|------|-------|
| End Point Volts/Cell | 1.5hr | 2hr | 3hr | 4hr | 5hr | 8hr | 10hr | 12hr | 20hr | 24hr | 48hr | 72hr | 100hr |
| 1.85 | 11.8 | 10.0 | 7.20 | 5.67 | 4.70 | 3.28 | 2.70 | 2.30 | 1.51 | 1.29 | 0.68 | 0.47 | 0.34 |
| 1.80 | 12.5 | 10.5 | 7.63 | 6.02 | 4.98 | 3.48 | 2.89 | 2.45 | 1.61 | 1.36 | 0.70 | 0.48 | 0.36 |
| 1.75 | 12.8 | 10.9 | 7.82 | 6.16 | 5.11 | 3.56 | 2.97 | 2.53 | 1.65 | 1.40 | 0.72 | 0.49 | 0.37 |

Note: Batteries to be mounted with 0.39 in (1.00 cm) spacing minimum and free air ventilation.
Specifications subject to change without notification.