

# EXCELLENT CYCLING ABILITY



## GL-6165

### ADVANCED TECHNOLOGY

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

**6V 165AH @ 20 HR RATE to 1.75VPC**  
**6V 180AH @ 100 HR RATE to 1.75VPC**

# LONG DURATION

FOR  
TELECOMMUNICATION  
SOLAR / PHOTOVOLTAIC  
WIND GENERATION  
MARINE  
APPLICATIONS

#### Innovative Features

- ◆ Deep cycle battery designed, GEL electrolyte with highly porous glass micro-fiber separator;
- ◆ 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;
- ◆ 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.

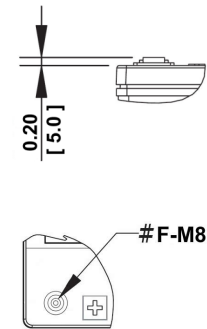
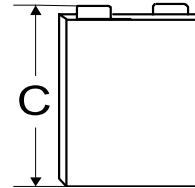
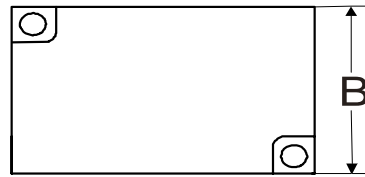
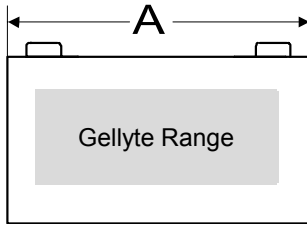
#### 6 VOLTS - 165 AMPERE HOUR @ 20 HOUR RATE

#### AH Capacity to 1.75VPC @ 20°C (68°F)

End Point Volts/Cell	1.5hr	2hr	3hr	4hr	5hr	8hr	10hr	12hr	20hr	24hr	100hr
1.75	108	114	123	131	133	146	151	155	165	170	180

# Gellyte Range VRLA

**EverExceed**<sup>®</sup>  
power your applications



Length: 260mm    Width: 180mm    Height: 252mm

Electrical Specifications					
Cells Per Unit	Voltage Per Unit	Weight	Electrolyte	Short Circuit Current	Internal Resistance Milliohms
3	6.42	49.5lbs 22.5kg	SG = 1.300	4590 Amps	3.4

<b>Capacity</b>	6V 165AH @ 20 HR RATE to 1.75VPC 6V 180AH @ 100 HR RATE to 1.75VPC
<b>Applicable Operating Temperature Range</b>	-40°C (-40°F) to +70°C (158°F).
<b>Ideal Operating Temperature Range</b>	+20°C (+68°F) to +32°C (90°F).
<b>Floating Charging Voltage</b>	6.75 to 6.90 VDC/unit Average at 20°C (77°F).
<b>Recommended Maximum Charging Current Limit</b>	33.0 Amperes (0.20 C20 Amperes)
<b>Equalization and Cycle Service Charging Voltage</b>	7.05 to 7.20 VDC/unit Average at 20°C (77°F).
<b>Maximum AC Ripple (Charger)</b>	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 = 0.83 amperes RMS (C/20) to 1.75VPC.
<b>Self Discharge</b>	EverExceed Gellyte 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.
<b>Accessories</b>	Inter unit connectors racks and cabinet systems are available.
<b>Terminal: Inserted</b>	Threaded copper alloy insert terminal.
<b>Terminal Hardware Initial Torque: Inserted Terminal</b>	11 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	100hr
1.85	128	103	73.6	58.4	48.5	33.5	28.1	24.3	15.5	13.2	3.47
1.80	136	108	77.3	61.1	51.0	34.9	29.0	25.0	16.1	13.8	3.72
1.75	141	112	78.7	62.6	51.9	35.7	29.8	25.3	16.4	14.1	3.84

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	100hr
1.85	65.9	52.8	37.8	29.9	24.9	16.6	13.7	11.6	7.53	6.49	1.71
1.80	70.5	55.8	39.8	31.3	26.0	17.4	14.7	12.4	7.96	6.85	1.76
1.75	71.7	57.2	41.1	32.5	26.6	18.3	15.1	12.9	8.25	7.09	1.80

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