

# Deep Cycle Gel Range VRLA

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

*EverExceed Gel Technology  
Excels in cycling applications*


For Mobility / Solar / Marine  
Telecommunication Applications



## 12-40G / E8GU1 GELLED VALVE REGULATED LEAD ACID BATTERY (GVR) FOR CYCLING APPLICATIONS 12V 25.6 AH @ 5 HR RATE 12V 33 AH @ 20 HR RATE



### FEATURES

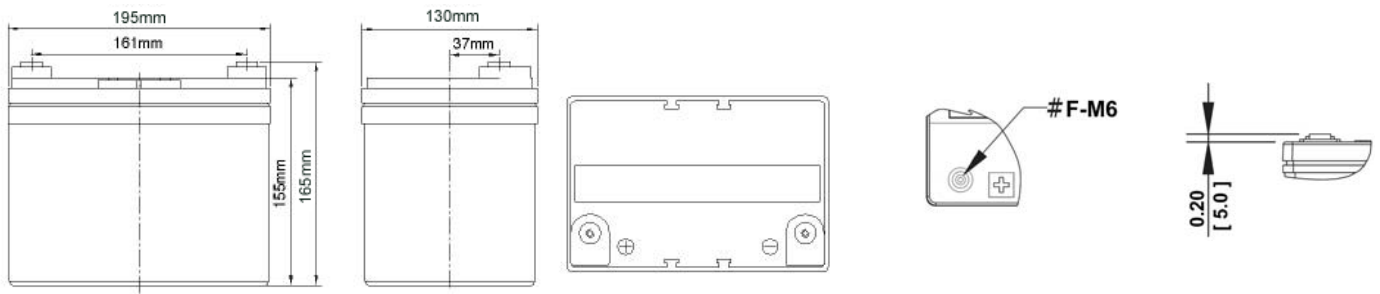
- ❏ Exceptional energy storage capacity combined with long life - BCI Classification
- ❏ Thick positive plate design for maximum service float life - 12 year design life @ 20°C(68°F)
- ❏  UL Recognized component .
- ❏ Spill-proof and leak-proof
- ❏ Maintenance-free (no topping up) during the whole service life due to EverExceed GEL technology
- ❏ Flame-arresting one-way pressure-relief vent for safe and long life
- ❏ Electrolyte in solid gel form will not stratify - no equalization charge required
- ❏ 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

### 12 VOLTS - 33 AMPERE HOUR @ 20 HOUR RATE

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

End Point Volts/Cell	1.5hr	2hr	3hr	4hr	5hr	8hr	10hr	12hr	20hr
1.75	19.3	21.7	23.5	24.6	25.6	28.5	29.7	30.3	33.0

# Deep Cycle Gel Range 12-40G



## 12-40G – Specifications

Cells Per Unit	Voltage Per Unit	Weight	Electrolyte	CCA at -18°C	Short Circuit Current	Ohms Imped 60 Hz (Ω)
6	12.84	20.7 lbs 9.4 kg	SG = 1.280	240 Amps	1500 Amps	0.0073

<b>Capacity</b>	33 Ah @ 20 hr. rate to 1.75 volts per cell @ 68°F (20°C). 25.6 Ah @ 5 hr. rate to 1.75 volts per cell @ 20°C (68°F).
<b>Applicable Operating Temperature Range</b>	-40°F (-40°C) to +140°F (60°C).
<b>Ideal Operating Temperature Range</b>	+68°F (+20°C) to +77°F (25°C).
<b>Floating Charging Voltage</b>	13.5 to 13.8 VDC/unit Average at 77°F (25°C).
<b>Recommended Maximum Charging Current Limit</b>	0.25C20 amperes (8.25 amperes @ 100% depth of discharge) @ 20 hr. rate.
<b>Equalization and Cycle Service Charging Voltage</b>	14.1 to 14.4 VDC/unit Average at 77°F (25°C).
<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 = 1.65 amperes RMS (C/20).
<b>Self Discharge</b>	EverExceed Deep Cycle Gel Range batteries may be stored for up to 24 months at 68°F (20°C) 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>	9 N-m

## Constant Power Discharge Ratings – Watts Per Cell @ 68°F (20°C)

End Point Volts/Cell	Operating Time to End Point Voltage (in hour)									
	1.5	2	3	4	5	8	10	12	20	24
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 Discharge Ratings – Amperes @ 68°F (20°C)

End Point Volts/Cell	Operating Time to End Point Voltage (in hour)									
	1.5	2	3	4	5	8	10	12	20	24
1.85	11.8	10.0	7.20	5.67	4.70	3.28	2.70	2.30	1.51	1.29
1.80	12.5	10.5	7.63	6.02	4.98	3.48	2.89	2.45	1.61	1.36
1.75	12.8	10.9	7.82	6.16	5.11	3.56	2.97	2.53	1.65	1.40

**Note:** Batteries to be mounted with 0.5 in (1.25 cm) spacing minimum and free air ventilation. Specifications subject to change without notification.