

Deep Cycle Gel Range VRLA

EverExceed[®]
power your applications

*EverExceed Gel Technology
Excels in cycling applications*


For Mobility / Solar / Marine
Telecommunication Applications



12-50G / E8G40-12 GELLED VALVE REGULATED LEAD ACID BATTERY (GVR) FOR CYCLING APPLICATIONS 12V 31 AH @ 5 HR RATE 12V 40 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

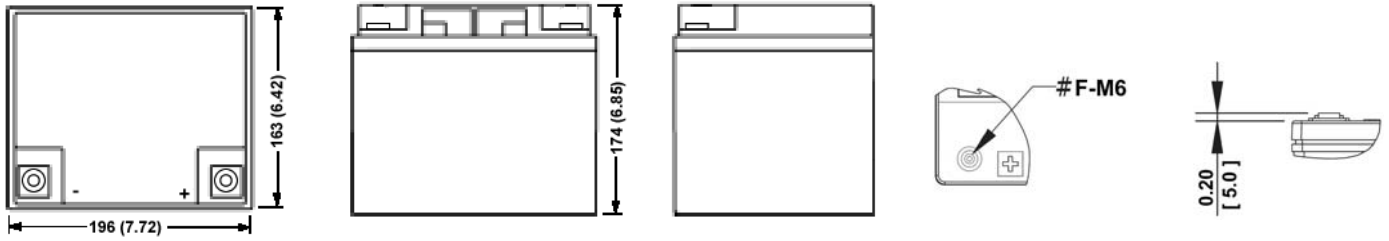
12 VOLTS - 40 AMPERE HOUR @ 20 HOUR RATE

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	23.4	26.3	28.4	29.9	31.0	34.6	36.0	36.7	40.0

Deep Cycle Gel Range 12-50G

Physical Dimensions: mm (inch)



12-50G – Specifications

Cells Per Unit	Voltage Per Unit	Weight	Electrolyte	CCA at -18°C	Short Circuit Current	Ohms Imped 60 Hz (Ω)
6	12.84	30.8 lbs 14 kg	SG = 1.280	260 Amps	1700 Amps	0.006

Capacity	40 Ah @ 20 hr. rate to 1.75 volts per cell @ 68°F (20°C). 31 Ah @ 5 hr. rate to 1.75 volts per cell @ 20°C (68°F).
Applicable Operating Temperature Range	-40°F (-40°C) to +140°F (60°C).
Ideal Operating Temperature Range	+68°F (+20°C) to +77°F (25°C).
Floating Charging Voltage	13.5 to 13.8 VDC/unit Average at 77°F (25°C).
Recommended Maximum Charging Current Limit	0.25C20 amperes (10 amperes @ 100% depth of discharge) @ 20 hr. rate.
Equalization and Cycle Service Charging Voltage	14.1 to 14.4 VDC/unit Average at 77°F (25°C).
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 = 2 amperes RMS (C/20).
Self Discharge	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.
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 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	27.6	23.4	17.0	13.5	11.2	7.90	6.53	5.57	3.65	3.14
1.80	29.1	24.6	17.9	14.2	11.8	8.33	6.91	5.92	3.88	3.29
1.75	29.6	25.2	18.3	14.5	12.1	8.47	7.06	6.03	3.96	3.35

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	14.4	12.1	8.72	6.87	5.70	3.97	3.28	2.78	1.82	1.56
1.80	15.2	12.8	9.25	7.29	6.04	4.21	3.51	2.98	1.94	1.64
1.75	15.6	13.1	9.48	7.47	6.19	4.32	3.60	3.06	2.00	1.69

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