



EVEREXCEED GEL TECHNOLOGY

E8G75 / 12-75G

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

12V 70.9AH @ 10 HR RATE to 1.80VPC

12V 81.1AH @ 20 HR RATE to 1.75VPC

12V 223WATTS/CELL @ 15MIN RATE to 1.67VPC

**LONG
DURATION**

**HIGH
PERFORMANCE**

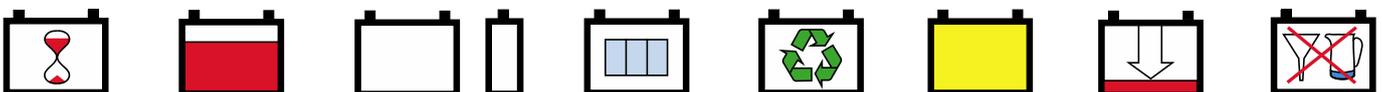


Features

- ☑ 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);
- ☑ Thickness positive plate plus optimized plate alloy to anti-corrosion;
- ☑ 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;
- ☑ 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.

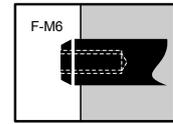
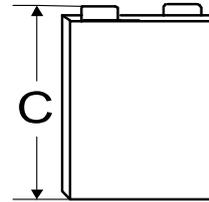
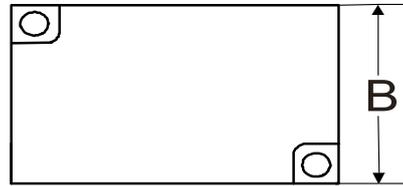
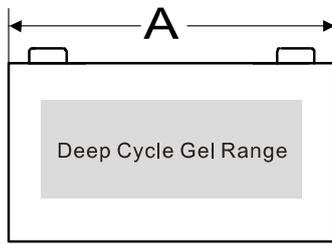
12 VOLTS - 81.1 AMPERE HOUR @ 20 HOUR RATE										
AH Capacity to 1.75VPC @ 20°C(68°F)										
End Point Volts/Cell	1.5hr	2hr	3hr	4hr	5hr	8hr	10hr	12hr	20hr	24hr
1.75	47.0	53.1	57.4	60.4	62.5	69.6	72.6	74.2	81.1	81.6

For Mobility / Solar / Marine Telecommunication Applications



Deep Cycle Gel Range

EverExceed[®]
power your applications



Length(A): 259mm
Width(B): 168mm
Height(C): 215mm

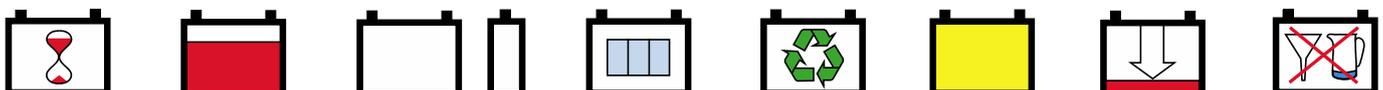
Electrical Specifications						
Cells Per Unit	Voltage Per Unit	Weight	Electrolyte	CCA@-18°C (0°F)	Short Circuit Current	Ohms Imped 60 Hz(Ω)
6	12.84	56.2lbs 25.5kg	SG = 1.300	439Amps	2200 Amps	0.0053

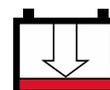
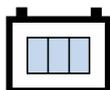
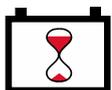
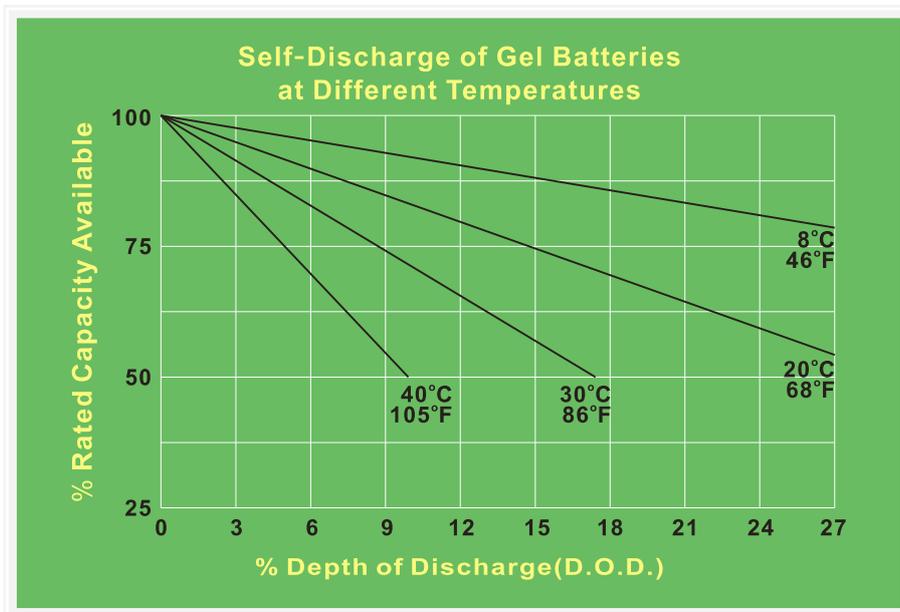
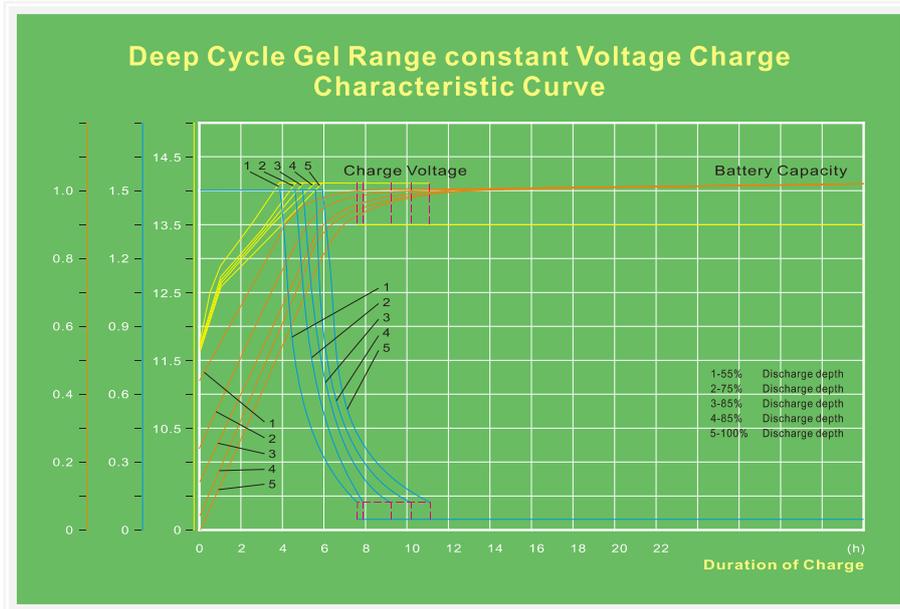
Capacity	223 Watts per all at the 15 minute rate to 1.75 volts per cell @ 20°C (68°F). 70.9 Ah @ 10 hr. rate to 1.80 volts per cell @ 20°C (68°F). 81.1 Ah @ 20 hr. rate to 1.75 volts per cell @ 20°C (68°F).
Applicable Operating Temperature Range	-40°C (-40°F) to +60°C (+140°F).
Ideal Operating Temperature Range	+20°C (+68°F) to +25°C(+77°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 (20.3 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 = 4.05 amperes RMS (C/20) to 1.75VPC.
Self Discharge	EverExceed Deep Cycle Gel Range batteries may be stored for up to 6 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	55.5	47.0	34.1	27.2	22.5	15.9	13.1	11.1	7.34	6.35
1.80	58.4	49.5	36.0	28.6	23.8	16.9	13.8	11.9	7.81	6.66
1.75	59.6	50.8	36.7	29.2	24.3	17.1	14.1	12.0	8.00	6.73

Constant Current Discharging Ratings - Ampere per Cell @ 20°C (68°F)										
End Point Volts/Cell	1.5hr	2hr	3hr	4hr	5hr	8hr	10hr	12hr	20hr	24hr
1.85	28.8	24.3	17.6	13.7	11.5	8.02	6.60	5.60	3.69	3.18
1.80	30.5	25.7	18.6	14.8	12.1	8.49	7.09	5.98	3.92	3.30
1.75	31.3	26.5	19.1	15.1	12.5	8.70	7.25	6.18	4.05	3.40

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

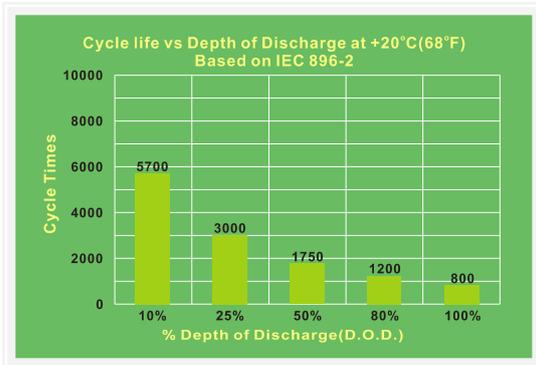




BATTERY CYCLING ABILITY

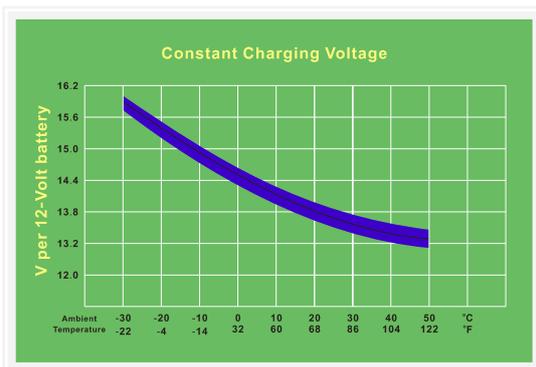
The EverExceed's Deep Cycle Gel Range VRLA Battery excels in cycling applications.

Deep Cycle Gel Range batteries are capable of 5000+ charge / discharge cycles depending on the depth of discharge.



TYPICAL CYCLIC PERFORMANCE

CAPACITY WITHDRAWN	CYCLES
100%	800
80%	1200
50%	1750
25%	3000
10%	5700



CONSTANT CHARGING VOLTAGE:

Shown is the constant charging voltage in relation to the ambient temperature.

The bandwidth shows a tolerance of ± 30mV/cell.

This constant voltage is suitable for continuous charging and cyclic operation.

In a parallel standby (floating) condition it always keeps the battery in a fully charged state; in a cyclic condition, it provides for rapid recharging and high cyclic performance.

CAPACITY VS. OPERATING TEMPERATURES:

Above are the changes in capacity for wider ambient temperature range, giving the available capacity, as a percentage of the rated capacity, at different ambient temperatures. The curves show the behavior of the battery after a number of cycles.

