

# DUAL PURPOSE DEEP CYCLE / STARTING RV MARINE



- Longer Deep Cycle Life
- More Operating/Trolling Time
- Faster Recharge/Longer Life
- Ideal for Remote Locations



*Outstanding performance and cost efficient*

## Features

- ☑ Valve regulated lead acid (VRLA)
- ☑ Gelled thixotropic electrolyte
- ☑ Spill-proof and leak-proof
- ☑ Operates at a low internal pressure
- ☑ Very low gassing due to internal gas recombination
- ☑ Flame-arresting one-way pressure-relief vent for safety and long life.
- ☑ Rated non-spillable by ICAO, IATA and DOT

## Benefits

- ☑ Sealed construction eliminates periodic watering, corrosive acid fumes and spills.
- ☑ Electrolyte will not stratify. No equalization charging required.
- ☑ Increases durability and deep cycle ability for heavy demand applications.
- ☑ Less than 2% per month stand loss means little deterioration during transport and storage.
- ☑ Fully tank formation ensures voltage matching between cells.

## Potential Applications for the EverExceed Marine Gel Battery

Buoy Lighting  
Safety Lighting  
House Power  
Control Equipment  
Ships' Batteries  
Navigation Beacons  
Emergency Power  
Other Deep-Discharge  
Radio Relay Stations

Engine Starting  
Communication Equipment  
Security Systems  
Marine Equipment  
Emergency Lighting  
Trolling Motors  
Radar Stations  
Supply Systems  
Applications

## Specifications

Voltage ..... 12 volts nominal (8GGC2M is 6 volts)  
Plate alloy ..... Lead Calcium Tin  
Element, post ..... Silver plated copper female Insert  
Container/cover ... Reinforced ABS (UL 94HB) ,  
Flame-retardant UL 94 V-0 on request  
Electrolyte ..... Sulfuric acid thixotropic gel  
Vent ..... Self sealing (2 PSI operation)

## Features and Benefits

- 100% maintenance-free...
- Ideal for engine starting and/or trolling...
- Faster recharging...
- Longer life...
- Longer operating/ trolling time...
- Compu-cast grids and computer-controlled oxide...
- Sealed, recombinant construction with gelled electrolyte...
- Self-discharge rate of less than 2% per month (at 68°F)...
- Thick consistency of gelled electrolyte and tight-pack construction...
- Easy to install...
- Over 250 quality control checks...
- Broad line of sizes and types...
- Your assurance of quality.
- No need to check electrolyte levels. Install it and forget it.
- Great multi-purpose battery.
- For quicker turnaround time.
- Resists damaging over-discharges.
- Runs considerably longer than comparable wet batteries.
- For maximum durability, power and life.
- Eliminates dangerous spills, gassing and terminal corrosion (unless severely overcharged).
- Recharges to full power, even if left discharged for months.
- Eliminates the damaging effects of vibration.
- Convenient for hard-to-reach connection and hook-up.
- Ensure highest quality, performance and reliability.
- For all your marine power needs.

### MARINE GEL SEALED VALVE REGULATED

Part No.	Foot Notes	Volts	CCA @ 0°F	Res. Capacity @ 80°F	Ref. CA @ 32°F	Minutes Discharged at*						Ampere Hour Capacity*				Approx. Wt. Lbs. (Kgs.)	Dimensions In (mm)		
						75 Amps	50 Amps	25 Amps	15 Amps	8 Amps	5 Amps	20 Hr. Rate	6 Hr. Rate	3 Hr. Rate	1 Hr. Rate		L	W	H
						Amps	Amps	Amps	Amps	Amps	Amps	Amps	Amps	Amps	Amps				
8GU1HM	4,17,38,39,Y/S	12	175	44	250	5	12	47	90	190	325	31.6	28.0	25.5	21.0	24.3 (11.0)	7.68 (195)	5.16 (131)	5.95 (151)
8G24M	4,17,38,39,Y/S	12	430	138	590	34	58	142	248	505	860	80.0	65.0	59.3	48.5	51.7 (23.5)	10.2 (259)	6.62 (168)	8.46 (215)
8G27M	4,17,38,39,Y/S	12	550	180	780	51	84	190	335	690	1,160	100.0	79.5	71.8	58.0	64.9 (29.5)	12.0 (305)	6.62 (168)	8.46 (215)
8G31DTM	4,17,38,39,Y/S	12	580	192	830	55	92	208	366	750	1,280	110	89.5	81.6	66.0	70.4 (32.0)	12.8 (326)	6.81 (173)	9.21 (234)
8GGC2M	4,17,38,39,Y/S	6	600	365	910	101	168	403	730	1,480	2,400	200	160	143	110	66.0 (30.0)	9.57 (243)	7.40 (188)	10.8 (275)
8G4DM	4,17,38,39,Y/S	12	990	390	1,300	113	190	425	736	1,490	2,500	200	162	149	123	136 (62.0)	20.5 (520)	9.37 (238)	8.78 (223)
8G8DM	4,17,38,39,Y/S	12	1,180	480	1,490	139	226	510	910	1,790	3,100	240	199	185	151	155 (70.5)	20.5 (520)	10.6 (268)	8.66 (220)

### \* NOMINAL

ALL RATINGS ARE AFTER 15 CYCLES AND CONFORM TO B.C.I. SPECIFICATIONS. All batteries manufactured in polypropylene cases and covers except where noted.

**IMPORTANT CHARGING INSTRUCTIONS:** WARRANTY VOID IF OPENED OR IMPROPERLY CHARGED. Do not install in a sealed container.

Constant under or overcharging will damage any battery and shorten its life! Use a good constant potential, voltage-regulated charger.

For 12-volt batteries, charge to at least 13.8 volts but no more than 14.1 volts at 68°F (20°C).

For 6-volt batteries, charge to at least 6.9 volts but no more than 7.05 volts at 68°F (20°C).

The open circuit voltage of a fully charged 12-volt battery is 12.8V at 68°F (20°C). However, as the battery charges, the building internal pressure (voltage) causes resistance to the charge. Therefore, the on-charge voltage must be higher (at least 13.8V) to overcome this internal pressure (voltage) during charging.

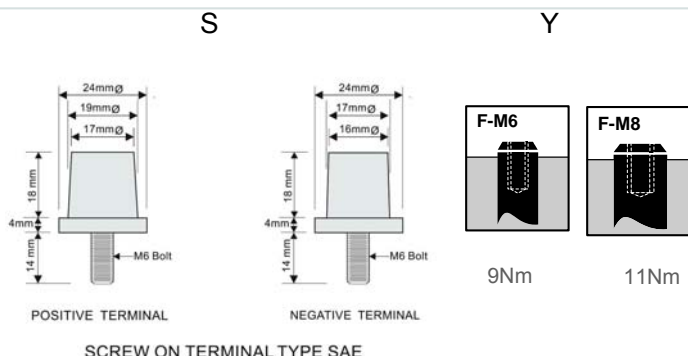
## FOOTNOTES

- 4 - Gray cover / Gray case  
17- Includes handle  
38- "Non-spillable" defined by DOT (Department of Transportation) definitions  
39- "Non-spillable" defined by ICAO (International Commercial Airline Organization) and IATA (International Airline Transport Association) definitions

S - SAE "automotive type" post

Y - Terminals have round holes

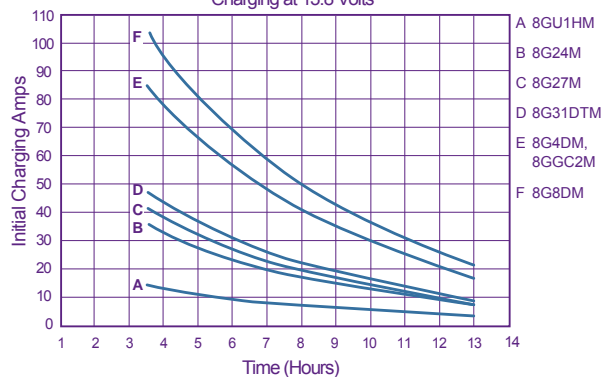
Terminal and torque



other terminal types available on request

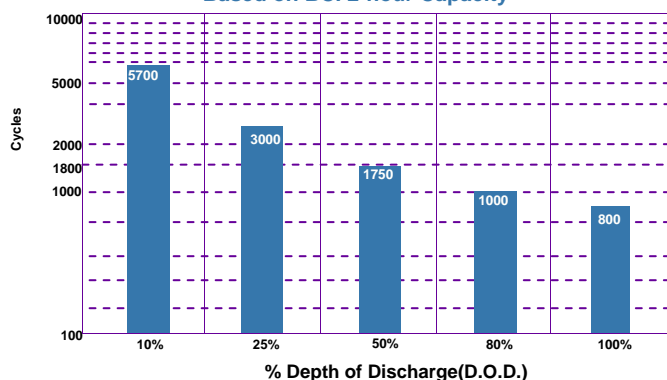


Gel Charging Hours vs. Initial Charging Amps  
Charging at 13.8 Volts



**Constant Charging Voltage:** Shown is the constant charging voltage in relation to the ambient temperature. The bandwidth shows a tolerance of  $\pm 30\text{mV/cell}$ . This constant voltage is suitable for continuous charging and cyclic operation. In a parallel standby mode it always keeps the battery in a fully charged state; in a cyclic mode, it provides for rapid recharging and high cyclic performance.

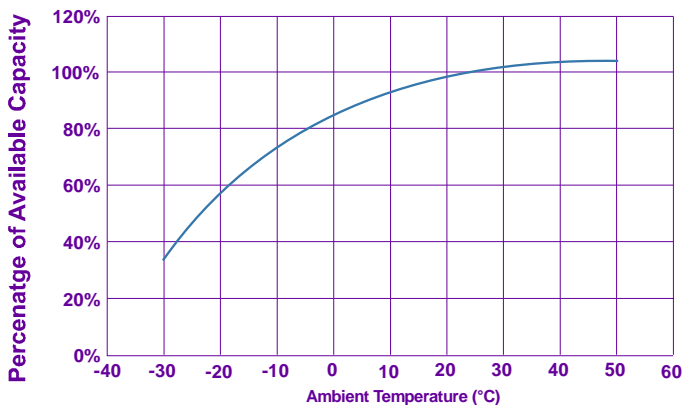
Gel Cycle Life vs Depth of Discharge at  $+25^{\circ}\text{C}$  ( $77^{\circ}\text{F}$ )\*  
Based on BCI 2-hour Capacity



The EveExceed's solar Gel battery excels in cycling applications.

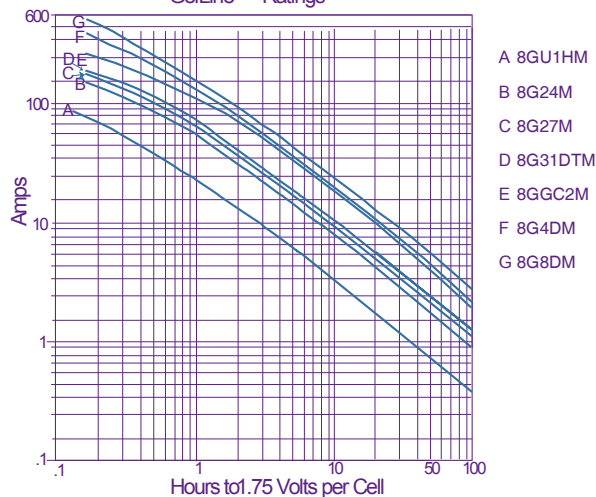
\*Dependent upon proper charging and ambient temperatures.

Capacity vs. Operating Temperature

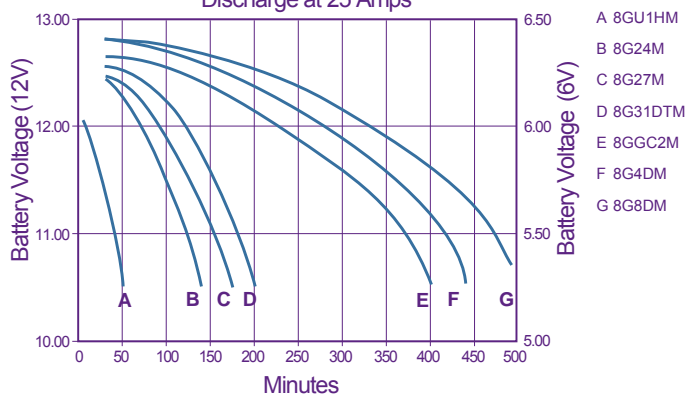


**Capacity vs. Operating Temperatures:** Above are the changes in capacity for wider ambient temperature range, giving the available capacity, as a percentage of the rated capacity, at different ambient temperatures. The curves show the behavior of the battery after a number of cycles.

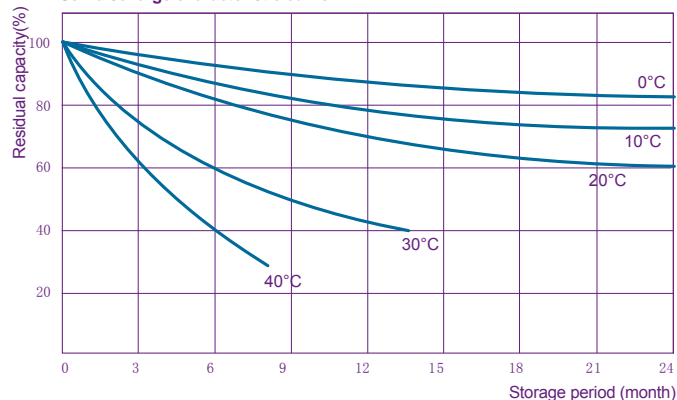
GelLine — Ratings



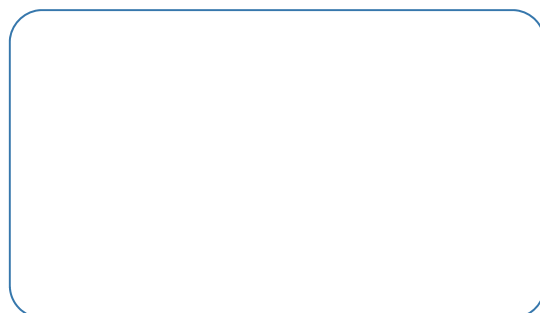
Gel Reserve Capacity  
Discharge at 25 Amps



Self-discharge characteristic curve



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