## EPS™ General Series VRLA Battery

The EPS1280 GEL battery with its proprietary grid alloy and paste formulation, provides superior performance in both high cycling and floating applications. By combining the newly developed Nano Gel electrolyte with high density paste, offering high recharge efficiency at very low charge current, the acid stratification is highly reduced by Nano Gel, and is suitable for off-grid photovoltaic, wind or hybrid power applications.

Maintenance and Cautions

- Ensure all batteries operating in a series based connection are not charged excessively;
- Ensure all batteries operating in a series based connection are not discharged excessively.;
- Batteries must be charged with the correct voltage;
- Recharge capacity will be 1.1 - 1.15 times the discharge capacity;
- Effect of temperature on cycle charge voltage: -5mV/degrees per cell;
- It is imperative the battery is always in an upright position and never on its side.
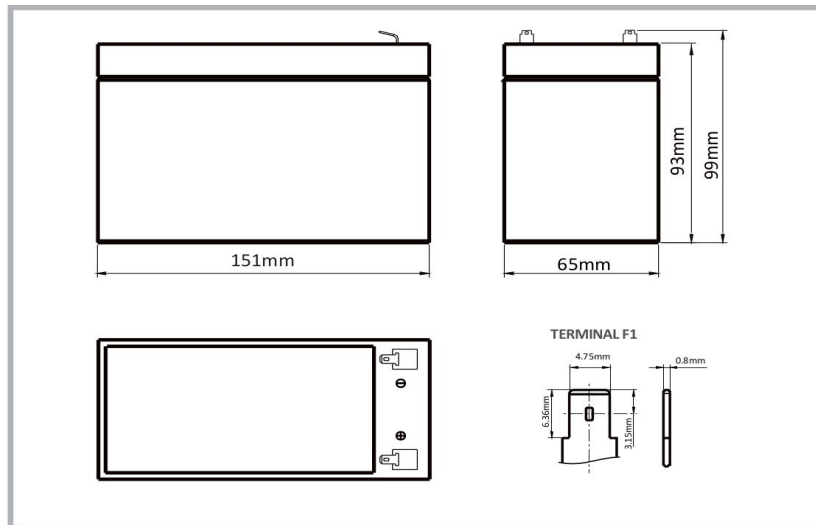
Factors affecting battery life

- Depth of discharge
- Temperature
- Recharge rate
- *Refer to Technical Specifications**
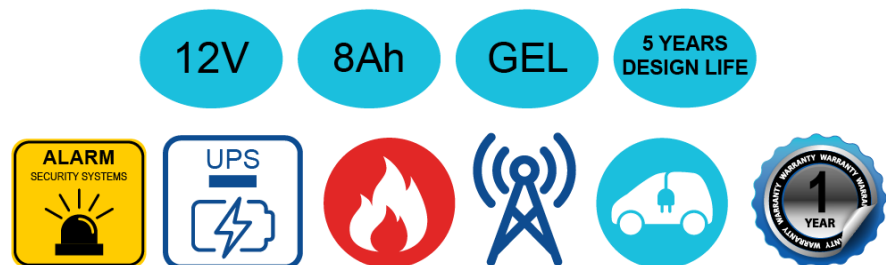
8ah (12V) Gel Technology Battery | EPS1280GEL

Battery Dimensions

TERMINAL F1

Technical Specifications

Physical Attributes	
Dimension (mm)	L 151mm x W 65mm x H 99mm
Approximate Weight	2.4 kg (5.29 lbs)

Voltage & Designations	
Nominal Voltage (V)	12 (6 Cells per unit)
Designed Floating Life (20℃)	10 Years
Nominal Capacity (20℃)	8 Ah @ 20HR-rate (to 1.75Vpc)
Terminal Type	Fasten Tab F1
Internal Resistance	Approximately 0.02mΩ (fully charged @ 20℃)
Max. Charge Current	2.4A
Max. Discharge Current (5S)	105A
Short Circuit Current	600A
Self Discharge	Approximately 3% per month @ 20℃
Ambient Temperature	Discharge: -15-50℃ Charge: -15-40℃ Storage: -15-40℃

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Float Charge Voltage (20 - 25℃)	13.6-13.8V (-3mV/ cell/ ℃)
Equalize & Cycle Use Charge Voltage (20 -25℃)	14.4-14.8V (-5mV/ cell/ ℃)
Container Material	ABS (UL94-V0 optional)

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