

Enersun Gel Series

Since 1991 the Enersun range of solar batteries has set the benchmark for reliable DC power in Australia's remote power systems. Their reliable performance is a testament to Century Yuasa's years of dedicated research and design experience.

Valve Regulated Design

Enersun Gel batteries are equipped with a simple, safe low pressure venting system. This releases excess gas should there be a build up of pressure within the battery due to severe overcharge and then automatically reseals.

Tubular Positive Plate Construction

Enersun batteries use tubular positive plate technology to ensure reliable performance. Tubular plates are formed by injecting active materials into sealed tubes which provides extra protection against shedding.

Low Maintenance Operation

The gel electrolyte and the process where gases are recombined within the cell mean that no electrolyte is lost during the life of the battery. Therefore it is never necessary to top up your Enersun Gel battery. Apart from keeping the top of the battery and the connections clean and free from contaminants, nil maintenance is required.

Float Service Life

The heavy duty lead calcium tin alloy grids provide excellent resistance against corrosion. The expected service life is ten years in float standby applications.

Sealed Construction

The unique construction and sealing technique of Enersun Gel Batteries ensures no electrolyte leakage from the case or terminals.

The Enersun Gel range of sealed Valve Regulated Lead Acid (VRLA) batteries use gas recombination technology and advanced sealed construction to provide years of reliable performance with minimal maintenance.

Applications

Enersun Gel batteries are suitable for all floating applications including:

- Solar Power Storage
- Telecommunications Standby power
- Uninterruptable Power Supplies
- Emergency Lighting
- Mobile Deep Cycle applications

Operation in any Orientation

Enersun Gel batteries can be supplied for either vertical or horizontal orientated installations with no loss of performance or concern of electrolyte leakage.

Flame Retardant

Enersun Gel battery containers and lids are made from flame retardant plastic materials with a UL94 rating of HB.

Recyclable Materials

All components of Enersun Gel batteries can be recycled. Visit www.recyclemybattery.com.au to find your nearest Century Yuasa Battery Recycling Centre.

- Please read through the Installation & Maintenance Manual before using Enersun batteries.
- Keep the Installation & Maintenance Manual near the battery for future reference.



Enersun
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General Safety

- Adequate ventilation must be provided in the battery enclosure or room, especially during recharge.
- Touching electrical conductive parts may result in an electric shock. Remove any loose metal objects on person such as pens, keys, metal watches and other relevant items prior to commencing work. If personal items such as wedding rings cannot be removed, they should be covered with gloves or other material to prevent accidental contact between them and live electrical parts of the system.
- Batteries produce explosive gases while on charge. Never place cigarettes, naked flames or sparks near batteries as this may cause an explosion.
- Appropriate signage must be installed. This needs to include the short circuit amperage and voltage of the system.
- Spilled acid should be neutralised with bicarbonate of soda, soda ash, lime or other compatible neutralising agent. Ensure the area is well ventilated. Do not inhale the fumes.

Storage and Moving Batteries

- Store the battery in a cool and dry location. Ideally, the storage room temperature should be $25^{\circ}\text{C} \pm 5^{\circ}\text{C}$.
- Avoid direct sunlight and extreme temperature, such as near heating equipment.
- Batteries are heavy. Always practice correct handling procedures as recommended by NOHSC publications, "National Standards for Manual Handling" and "National Code of Practice for Manual Handling". Lifting apparatus should be used to move Enersun Gel Batteries.
- All batteries should be stored under cover and on an impervious surface, away from sewer and storm water drains.
- Leaking or cracked batteries and / or cells must be adequately contained during storage and transportation. Always keep battery in upright position.

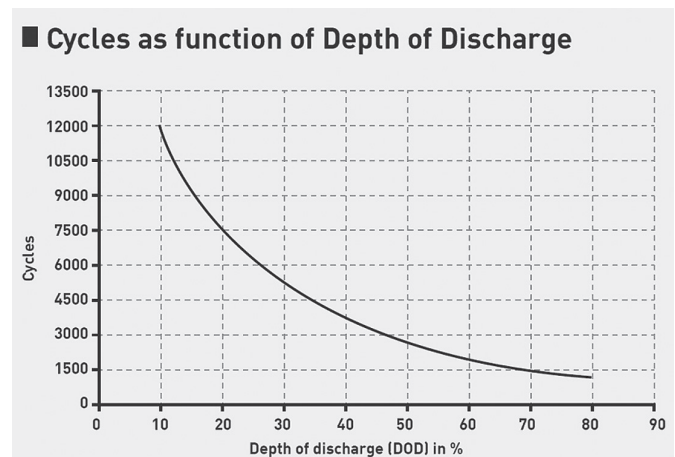
- Do not allow foreign material into the battery cells. This will potentially reduce performance and the life of the battery.

Safety Precautions at time of Installation

- All battery installations in stand-alone power systems should comply with the relevant Australian Standards:
 - AS 4086.1(1993) – Secondary Batteries for use with stand-alone power systems: General Requirements
 - AS 4086.2(1997) – Secondary Batteries for use with Stand-alone power systems: Installation & Maintenance
- Do not lift batteries by the terminals. From a standing position, lifting loads over the 16-20kg range should be avoided. Appropriate handling methods and / or apparatus should be employed. Refer to the Enersun Gel Handling and Installation Manual.
- Safe electrical practices should be followed at all times, including the electrical isolation of components wherever applicable, and the use of suitably insulated tools.

Battery Dimensions

	Length (mm)	Width (mm)	Height (mm)	Weight (kg)
135Ah	272	205	385	52
205Ah	380	205	385	74.2



For further information please refer to CenturyYuasa website, www.enersun.com.au or contact; Australia 1300 362 287 New Zealand 0800 236 8879

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