

## Safety Precautions

- Be sure to read through the instruction manual before using the battery.
- Keep the instruction manual near at hand for future reference.

### 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.
- A storage battery produces hydrogen and oxygen 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°C ± 5°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"
- 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.

### Installation

- Do not top up the cells with water upon receiving. Filling up should only be carried out after an equalising charge.
- Remove travel vent caps and replace them with float vent caps. Store the travel vent caps for future use in a clean plastic container.
- Use only distilled or de-ionised water suitable for battery for topping up.
- 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.
- Safe electrical practices should be followed at all times, including the electrical isolation of components wherever applicable, and the use of suitably insulated tools.

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*An affiliated business of the GS Yuasa Corporation, CenturyYuasa has an 80+ year history of supplying a range of stored energy solutions to the Australian market. An established network of sales and distribution offices throughout Australia and New Zealand has seen the business gain the trust and respect from its customers by focusing on quality products and exceptional customer service.*

*The portfolio within CenturyYuasa includes a wide range of stored energy products and services, as well as identifiable brands and unique technologies for automotive, materials handling and standby power applications. Directly maintaining and operating three manufacturing centres in Australia employing some 650 people, CenturyYuasa continues to be Australia's enduring manufacturer of stored energy products.*

## SSR SERIES



## SSR SERIES

Since 1991 the Enersun SSR range of solar batteries has set a 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, combined with its accredited ISO quality assurance programs.

Enersun SSR vented lead acid batteries are purposely designed and manufactured to provide a guaranteed performance in Australia's harsh environment.

### Enersun SSR Vented Lead Acid Batteries

#### Low Self Discharge

Self Discharge is exceptionally low at <5% per month when stored out of direct sunlight and at 25°C.

#### Robust Construction

Designed and manufactured specifically for the harsh Australian conditions with a 3mm steel powder coated tray housing a polypropylene (PP) cell jar and lid.

#### High 'Top-Of-Plate' Electrolyte Reservoir

The large 'top-of-plate' electrolyte reservoir reduces the effect of temperature as well as minimising maintenance frequency.

#### Tubular Positive Plate Construction

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

#### Warranty

Enersun SSR is warranted against defects in material and workmanship for a period of three years from date of delivery.

#### Recyclable Materials used in Batteries

Enersun SSR Lead Acid batteries can be recycled.



### Applications

Enersun SSR Solar batteries are suitable for all cyclic applications in Remote Area Power Supplies (RAPS) for both on-grid and off-grid applications.

### General Specifications

Battery	Voltage (Vdc)	Nominal Capacity C100 (Ah)*	Max. Initial Charge		Dimensions			Weight (kgs)	Electrolyte Volume (L)
			< 2.40 vpc	≥ 2.40 vpc	Width ± 3mm	Depth ± 3mm	Height ± 3mm		
SSR 450-6	6	450	38	27	360	185	645	81	16.2
SSR 535-6	6	535	45	32	360	185	645	88	15.2
SSR 700-6	6	700	60	42	455	185	645	109	21.0
SSR 875-6	6	875	74	52	550	185	645	133	25.5
SSR 1025-4	4	1025	87	61	345	235	645	103	20.2
SSR 1320-4	4	1320	113	79	345	285	645	130	25.6

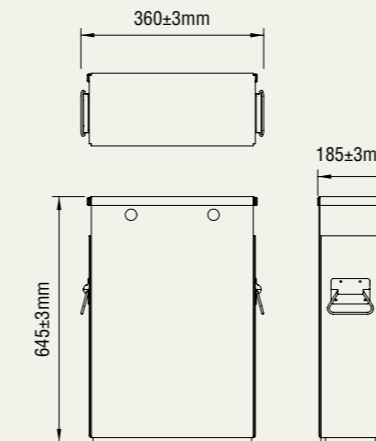
\*End voltage 1.85vpc @ 25°C

### Performance Data

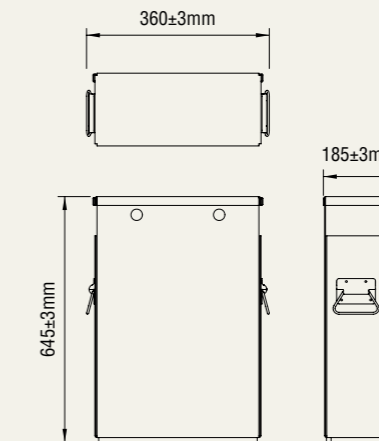
Battery	Ah @ 25°C			
	C10 to 1.70 vpc	C20 to 1.75 vpc	C100 to 1.85 vpc	C120 to 1.85 vpc
SSR 450-6	335	375	450	460
SSR 535-6	401	448	535	548
SSR 700-6	531	593	700	718
SSR 875-6	662	739	875	897
SSR 1025-4	774	867	1025	1050
SSR 1320-4	997	1118	1320	1352

Depth of Discharge (DoD)	Number of Cycles @ 25°C
20% DoD	3000
30% DoD	2700
50% DoD	2050
80% DoD	1400

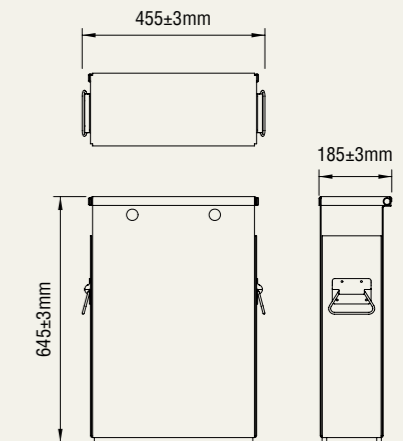
#### SSR 450-6



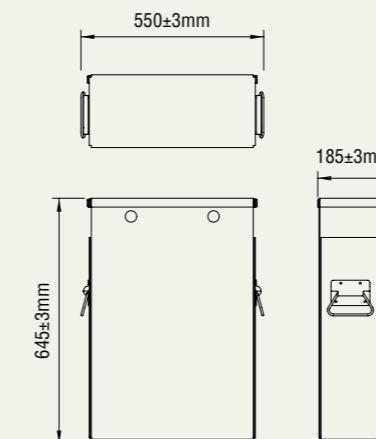
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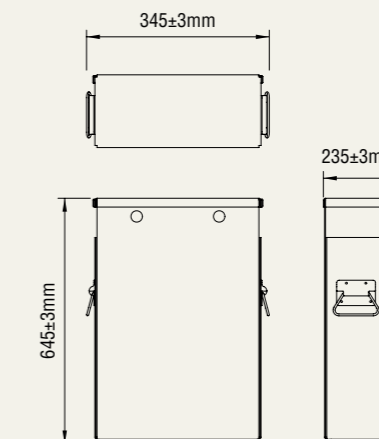
#### SSR 700-6



#### SSR 875-6



#### SSR 1025-4



#### SSR 1320-4

