



Leading the way



A world of power applications

CARBON FIBRE DEEP CYCLE MONOBLOC BATTERY

PRODUCT ENDORSEMENTS

The Caravan Club Magazine

ELECSOL 90/110

The Elecsol battery is a clear winner for several reasons. Carbon fibre plate construction makes it light weight, of obvious benefit when lifting and carrying. Carbon fibre is also a strong material and conducts electricity well. Suitable for both leisure use and car starting—mounting lugs are moulded on the battery case – this battery is competitively priced and comes with five-year guarantee.

AT A GLANCE

RRP: £104
CAPACITY: 110Ah
SIZE (LxWxH): 352x175x195mm
WEIGHT: 25kg
GUARANTEE: five years
TEL: 0800 163298
WEBSITE: elecsolbatteries.com

THE CARAVAN
CLUB MAGAZINE'S
BEST BUY



Caravan Life - A new type of leisure battery using carbon fibre technology is on the market.

We feel that the performance given by this battery is more than up to standard and certainly better than many other batteries on the market.

We chose the larger of the two batteries, rated at 90- 110 ampere hours (ah), charged it fully and then put it through a series of heavy discharges.

Voltage was checked every half-hour until it had reached 12V. We then lowered the voltage to just under 11V. The battery was taken off load, allowed to settle and further discharged with a 5-amp load to 10.8V.

If a battery is to recover from any treatment received it will regain its original full voltage of 12.7V under charge after being allowed to settle for 12 hours. If permanent damage has been done it will not recover.

After the second discharge the battery was put back on charge and left for 24 hours. During this time it dropped back to a nominal float voltage of 13.8V. It was then disconnected. After a further 12 hours the voltage was rechecked every 12 hours for a three-day period, during which the open circuit voltage remained steady at 12.7V.

Further product endorsements can be found on our website.

A BATTERY SO ADVANCED, IT'S GUARANTEED 5 YEARS AHEAD!

Elecsol batteries have proven themselves over the last decade to consistently offer 3 x the cycling life, more power - less weight, than conventional leisure batteries. We offer you an unrivalled five year guarantee which is backed up both nationally and internationally with distributors supporting the product in every continent worldwide. As we go forward into our next decade we will continue to develop our product technologies to improve the ways our customers enjoy their leisure time.



More Power - Less Weight

Elecsol batteries offer higher power and performance through the use of unique patented carbon fibre technology.

Independent tests prove they give 20% more power output for no increase in the overall weight of the battery.



3 x The Cycling Life

The carbon fibre technology employed in the Elecsol battery range significantly increases the cycling performance and life of the battery when compared to equivalent semi traction batteries. Elecsol batteries will complete over 1000 deep discharge cycles - 3 times as many cycles as the nearest equivalent.



5 Year Guarantee

A full 5 year Guarantee is offered world-wide for all our products for Deep Cycling Applications and Engine Start.



Unrivalled Performance with Solar

Elecsol batteries complement the use of solar panels, they are capable of accepting even the smallest amount of charging current - allowing for overcast conditions whilst ensuring optimum power output at all times.



Product Endorsements

Elecsol batteries have received the following endorsements:

- Which
- Caravan Life
- Caravan Club
- Team Group 4



Inverter Use

Elecsol batteries offer the perfect solution for use with inverters, they can accept higher charging currents whilst ensuring they can be continuously over discharged or even left in a discharged state permanently with no loss of capacity on recharge.



Dual Purposes

Carbon Fibres strengthen the grid ensuring no plate buckling when used for engine starting purposes. Elecsol batteries can be successfully used as a dual purpose engine start and deep cycle battery.



A World of Applications

Employed world-wide by a diverse consumer and industrial user platform, Elecsol batteries can be used successfully in the following list of applications:- Motorhomes, Caravans, Narrowboats, Cruising / Yachting, Cars, Electric vehicles, Electric scooters, Commercial vehicles, Tail-lifts, Renewable energy systems, Solar, Standby power.



Product Improvements

Our new range of batteries have the following improvements:

- New improved distinctive yellow top image.
- New S type separator for even more power output.
- A 5 year guarantee for all applications (previously 4 years for boats).
- Carbon Fibre optimization for improved cold cranking and cycling performance.
- 'MAINTENANCE FREE' to European DIN specifications.



No plate sulphation

Incredible but true! The major failure of traditional leisure batteries is plate sulphation. This is caused by continuously discharging the battery or leaving the battery in a flat condition. Upon recharging, the capacity loss is significant as a large portion of the battery plates have a permanent deposition of lead sulphate. Carbon fibre technology incorporated in the Elecsol range of batteries ensures the battery can be deeper discharged without permanent damage resulting. Highly conductive carbon fibres allow acid to flow deeper into the plate forming a conductive network within the grid preventing the build up of lead sulphation.



A DECADE OF POWER 1997-2007

TECHNICAL DATA

WHY USE CARBON FIBRE

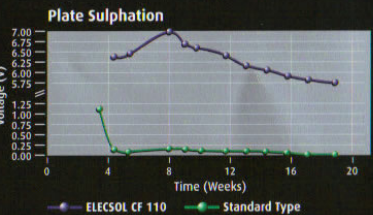
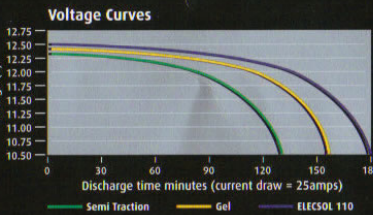
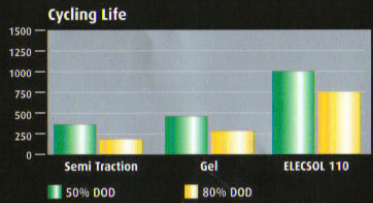
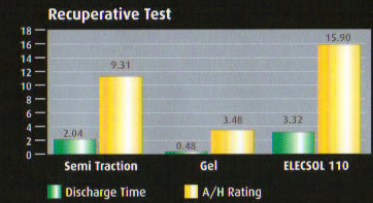
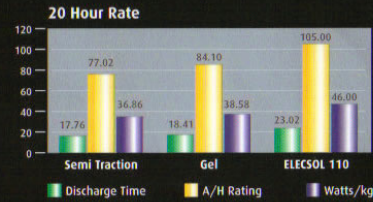
Carbon Fibre is not only a very strong material but also an excellent electrical conductor. When used in the manufacturing process, it reinforces the lead plates and helps prevent the plates from shredding the oxide paste.

Millions of strands of Carbon Fibre build up a conductive network within the grid itself. This gives greater plate surface area able to absorb the charge faster and more efficiently. The Carbon Fibres act as an Osmosis Pump ensuring acid is drawn deeper in to the plate, utilising more of the potential capacity.

The high strength of the grids ensure no plate buckling under high cranking loads. This is unusual in a leisure battery as conventionally the plates under these conditions will buckle. The ELECSOL range has been specifically designed for dual purpose use.

SO, THE BATTERY STILL USES LEAD

Yes, the plates are still lead oxide. The addition of the Carbon Fibres have enabled the plates to reduce in size whilst still keeping the capacity high.



Batteries were submerged in a heated bath at 40°C for three months and short circuited to 0.00 volts. The ability to recover charging voltage was then measured.

PRODUCT RANGE/SPECIFICATIONS

Product	Capacity	CCA Cold cranking	Dimensions L x W x H	Weight	RRP inclusive of VAT
Elecsol 70	70AH	300	242 x 175 x 190mm	16.5kg	
Elecsol 100	100AH	375	278 x 175 x 190mm	19.6kg	
Elecsol 110	110AH	450	353 x 175 x 190mm	25.2kg	
Elecsol 125	125AH	550	344 x 172 x 235mm	28.5kg	
Elecsol 220	220AH	700	513 x 223 x 223mm	49.0kg	
Elecsol 270	270AH	800	513 x 270 x 240mm	62.2kg	



BATTERY-INVERTER SELECTION GUIDE

Inverter Size	Optimum Battery Bank Size	Battery Type
1000W	440 amps	4 x Elecsol 110 Alternate 2 x Elecsol 220
1500W	500 amps	4 x Elecsol 125
2000W	660 amps	3 x Elecsol 220
2500W	880 amps	4 x Elecsol 220 Alternate 3 x Elecsol 270

This chart is for guideline purposes only

Elecsol Europe
 3 Westwood Court, Clayhill Industrial Park,
 Neston, South Wirral, CH64 3UJ
 Telephone: 0800 16 32 98
 E-mail: info@elecsolbatteries.com
 Website: www.elecsolbatteries.com

YOUR LOCAL STOCKIST:

GB PATENT No. 2299702 / US PATENT No. 5741588