

# Efficient Charge Controller

Bringing your signage ideas to life

## Efficient Charge Controller

Featuring a 4-stage intelligent charger to maximise the potential of the battery, the charge controller is easy to test and has high efficiency, even in low-light conditions.

The Zeta EMS contains the unique Energy Optimiser™ which is specifically designed to manage solar energy charge. The microprocessor based system monitors battery charge levels. When the charge is low the light output level is temporarily lowered to allow the charge to build up while ensuring constant illumination. This ability to regulate the output of the LED drivers ensures that the system operates at optimum performance throughout the winter period.



Award winning intelligent controller

## Inside this state of the art, patented EMS are the following features:-

- Multiple PV inputs
- MPPT tracking
- Energy Optimiser™
- Temperature compensated battery charging
- Four stage high efficiency battery charging
- Data logging for a whole years worth of data (more than 20 parameters are logged)
- High efficiency LED driving circuits (multiple channel)
- Protected against moisture by total encapsulation
- The Zeta EMS also has the ability to send the data stored direct to your pc, via a GPRS modem

# Long Life Battery

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## Long-Life Battery Technology

Solar applications require a battery. As an independent company we have the flexibility to choose our batteries carefully ensuring both suitability and cost effectiveness for each application.

The Absorbed Glass Mat (A.G.M) batteries we use have the ability to be discharged in any orientation and a special assembly technology is used to enhance power density. Epoxy terminal seals resist electrode creepage through terminals and low internal resistance allows discharge currents of over ten times the rated current of the battery. Therefore, a relatively small battery may be specified in applications requiring high peak currents. Unique technical processes are used in the grid alloy and electrolyte additives so that the battery can be re-charged easily to a normal level even after being over-discharged. This range of batteries can be easily transported due to the leak proof construction.

## Z-Link

This innovative feature allows integration of additional devices and functionality such as clocks, GPRS modems, cameras, motion sensors, shock detectors or even audio-units - the possibilities are endless.



Maintenance free long life battery



LED signs powered by Zeta. Patent pending

Eurosigns have partnered with Zeta to produce market leading internally illuminated LED signs.

Zeta is the leading UK developer and manufacturer of solar powered LED lighting systems.

Our innovative solar lighting technology has been installed throughout the UK into street furniture including bus stops, and amenity lighting.