



## Model KS-X1200 LiFePo 40A 12V Lithium Battery Charger

(For LiFePo4 lithium iron phosphate batteries only)

### General:

**WARNING:** This charger is designed for indoor use only. Never expose this product to rain or wet conditions.

Lithium batteries must not be charged below 0 degrees Celsius. Batteries must have an integral or attached BMS only. Recharge discharged lithium batteries immediately. Ensure batteries have a stated nominal charge voltage between 14.2 to 14.6 volts only. The charger may charge any size (Ah) battery bank providing it does not exceed the manufacturers maximum recommended charge current. If in doubt always consult the battery manufacturer.

Make sure you are using correct AC line voltage and all plugs and sockets are in good order. Do not attempt to use the charger if it has been dropped or damaged. Never attempt to charge a damaged battery or lead battery with this charger. The battery charger should be kept away from heat sources. If the battery charger does not work properly, do not attempt to repair it or open the case. There are very high internal voltages present even when the unit has been unplugged. Before charging, check the battery type and maximum charging voltage allowed. Or, get this information from battery supplier. Ensure the vents are kept clear for the cooling fan to function unimpeded.

Your 100% satisfaction is our goal: We know that every customer is unique. If you have a problem, a question or comment please do not hesitate to contact us, even if the warranty period is over. Product warranty: This product has a warranty of 2 years. This is counted from the date of purchase. Each product is guaranteed against defects in materials or workmanship. We shall choose to replace or repair a defective product during the warranty period. The following provisions apply: - Proof of purchase must be provided. - Our warranty covers defects in materials and manufacturing. Damage caused by neglect, abuse, accident, alteration, misuse, are not covered by our warranty. - The guarantee does not apply if the damage resulted from improper repairs. - The consumer is liable for shipping the product. If your product was damaged in transit, contact us quickly, we can solve the problem. This only applies for the transport organized by our company. To make a claim under warranty, check the phone number on the internet.

### Features:

Intelligent charger designed for 4 cell LiFePO4 battery packs (12.8V-13.2V nominal). CPU control and pulse width modulation (PWM) technology, charging current and output voltage is controlled accurately to ensure CC/CV charging. Built-in forced cooling fan to ensure long service life. User carry handle. Permanent fixing brackets integral to aluminium case.

Safety protection:

- Over Voltage Protection
- Short Circuit Protection
- Output Reverse Protection
- Output is isolated from input
- High frequency switching, >90% efficiency
- Cuts off charge power automatically when battery is fully charged.

LED indicators:

- \* LED is Red = Charging
- \* LED is Green = Fully Charged



## Charging Instructions:

**Warning:** HIGH CURRENT at low voltage! **VERY IMPORTANT:** Avoid charging batteries leaving the terminal bolts "loose". Tighten the bolts first to avoid contact resistance between the crocodile clips, the bolts, and the internal threads of battery poles. Overheating of terminal posts/bolts may result in damage and can be a fire hazard. Always ensure the terminals are tightened fully down before charging.

Before charging, please connect the charger's alligator clips to battery: the "red" clip connects to the POSITIVE pole and the "black" connects to the NEGATIVE pole. After, connecting, connect the mains input power plug to the power supply.

The charger applies the intelligent charging method of constant current and then constant voltage. The charger will automatically shut off when battery is fully charged, and no further charging will take place.

Unplug the input of the power supply then disconnect the output clips. When charger is not in use or finished charging, be sure to unplug input power supply.

Indicator LED instruction:

"Charging" indicator shows "red" under normal charging state. It turns into "Green" when the battery is fully charged, the battery can be put into use at this time. The charging voltage of this charger limits at 14.6V and the shut-off current is <0.3A.

## **Specifications:**

Input voltage: 200---240VAC 50Hz Input current: 3.9A RMS max

Minimum rated mains outlet: 5A

Output voltage 14.6V DC Output current 40A

Charging Algorithm: constant current at 40A then then constant voltage <40A

Size (mm): LxHxW 260/80/120

Weight (Grams ex cables): 1790

Cable length (M): 1.2

## **Includes:**

Battery Charger

Power Cable

Instruction Sheet



### **Declaration of Conformity:**

In accordance with the provisions of Directives 2014/35/EU, 2014/30/EU, 2009/19/EC, this product complies with the following standards or normative documents:  
EN55014-1; EN55022 B; EN 61000-3-2; EN 61000-3-3; EN61000-6-1; EN61000-4-2; EN61000-4-3;  
EN61000-4-4; EN61000-4-5; EN 61000-4-6; EN 61000-4-11; EN60335; EN50498.



The product must not be disposed of in the household waste.



The product is RoHS compliant. It complies with the directive 2011/65/EU for Reduction of Hazardous Substances in electrical and electronic equipment.

**Quality Management System**  
DIN EN ISO 9001