

## INSTRUCTION MANUAL

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# EURO CHARGER AUTOMATIC BATTERY CHARGER



**MODEL # 091-90-XX**

**NOTE :**

**This charger is designed for vehicles with  
3 batteries and negative ground.**

**3 YEAR WARRANTY**



**KUSSMAUL ELECTRONICS CO., INC.**

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## **INTRODUCTION**

The Euro Charger, Model 091-90-xx is a compact, completely automatic single channel battery charger designed specifically for the fire service and emergency vehicles. Of rugged construction, the charge is made to withstand the shock and vibration encountered in vehicle mounted equipment. Utilizing components which meet international safety requirements makes this charger ideal for worldwide applications.

## **BATTERY CHARGER FEATURES**

- Completely automatic operation, charges battery on demand
- Input voltage, switch selectable, 115 volt or 230 volts
- Output voltage regulated, eliminates overcharging battery
- Output, current limited to protect charger from overloading
- Optional charge indicators

## **INSTALLATION**

The Euro Charger Automatic Battery Charger should be installed in an area with adequate ventilation.

Mount the charger using the four holes provided.

Connect the wiring from the batteries to the output terminal strip.

Double check battery wiring. Verify that battery voltage appears at the charger output terminals.

Set the voltage selector to either the 115 volt or 230 volt position to match the input source available.

Connect the input power to the input power terminal strip and energize charger.

Verify that power indicator is illuminated and charger is charging.

# SPECIFICATIONS & WIRING DIAGRAM

## SPECIFICATIONS:

**Input:** see chart

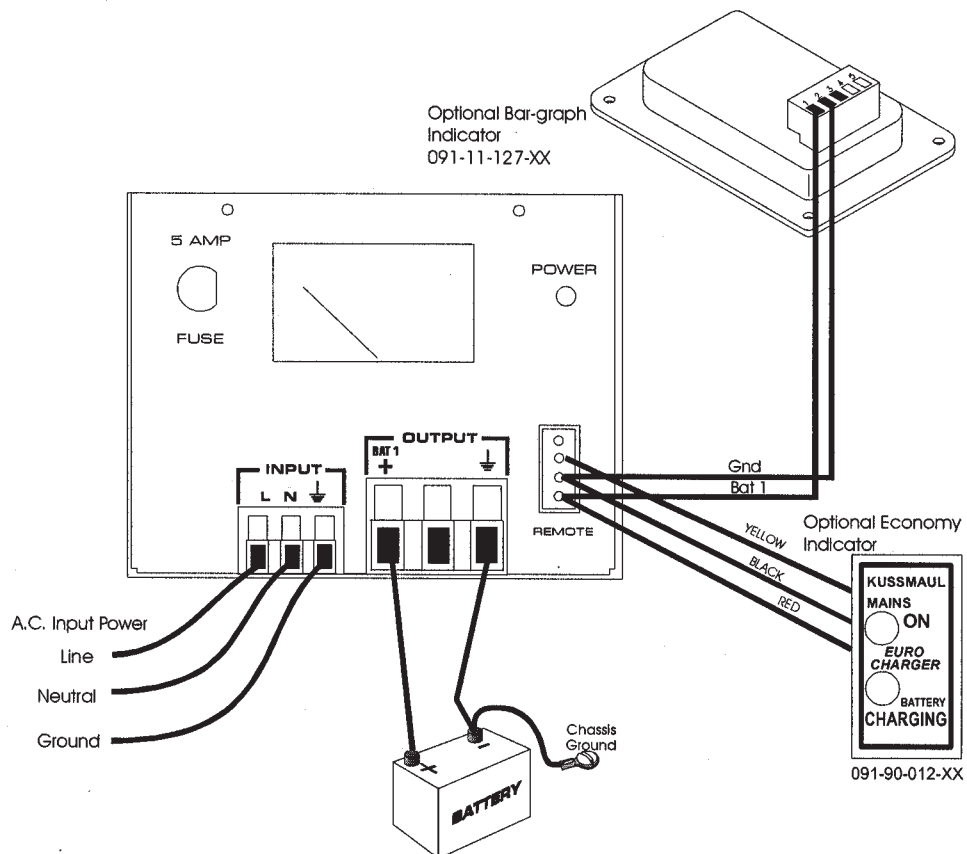
**Output:** see chart

**Output Current:** see chart

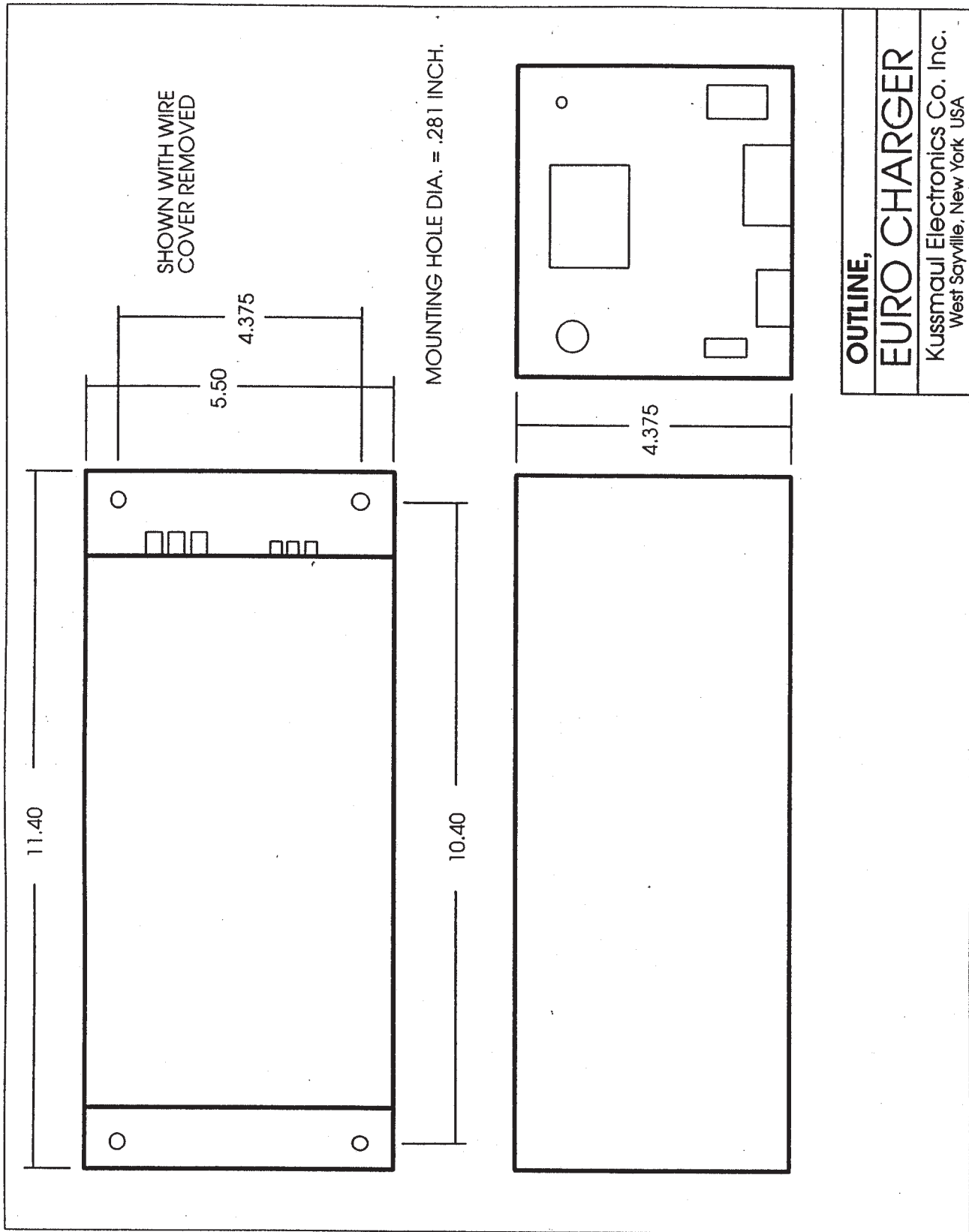
**Charge Indicator:** 0-20 amps 5%

**Weight:** 12 lbs

Model #	Output Current	Output Voltage	Input Voltage	Input Current	Charge Indicator
091-90-12	12 Amps	12	230/115, 50/60 Hz	1.3/2.6 Amps	15 amps
091-90-24	6 Amps	24	230/115, 50/60 Hz	1.3/2.6 Amps	8 amps



**IMPORTANT:** Charger output wire size is 12 awg. Wire size is for a maximum length of 20 feet. If wiring is to be longer, larger wiring is required. Additional information is available on request.



# **INSTALLATION RECORD & WARRANTY**

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**Date Installed** \_\_\_\_\_

**Installed By** \_\_\_\_\_

**Vehicle Identification** \_\_\_\_\_

**Vehicle Owner** \_\_\_\_\_

## **WARRANTY**

All products of Kussmaul Electronics Company Inc. are warranted to be free of defects of material or workmanship. Liability is limited to repairing or replacing at our factory, without charge, any material or defects which become apparent in normal use within 3 years from the date the equipment was shipped. Equipment is to be returned, shipping charges prepaid and will be returned, after repair, shipping charges paid.

Kussmaul Electronics Company, Inc. shall have no liability for damages of any kind to associated equipment arising from the installation and /or use of the Kussmaul Electronics Company, Inc. products. The purchaser, by the acceptance of the equipment, assumes all liability for any damages which may result from its installation, use or misuse, by the purchaser, his or its employees or others.