

# INSTRUCTION MANUAL

## eFUEL 1200WATTS

### 60A SWITCHING DC POWER SUPPLY

#### INTRODUCTION

Thank you for purchasing the eFUEL 60A Switching DC Power Supply. We are confident that you will be very pleased with its performance because our Switching DC Power Supply is designed and manufactured by skilled professionals using the highest standard in workmanship. You can be assured of many years of trouble free service.

#### GENERAL DESCRIPTION

Your eFUEL switching DC Power Supply is designed to use household AC power source to power equipments that required DC power. The eFUEL converts standard household power 100-120V AC or 200-240V AC to 15-24V DC power and can supply up to 60 amperes of continuous power.

The maximum output current is regulated by the output power of this power supply and does not exceed 60 Ampere. Maximum Current = 1200W divide by output voltage. ( eg. DC20V output, maximum current = 1200W / 20V = 60A; DC24V output, maximum current = 1200W / 24V = 50A.)

#### FEATURES

- \* One main DC power outputs, up to 60 amperes, three output channels with ON/OFF switch.
- \* Output voltage adjustable 15-24V
- \* Large LCD indicates voltage and current amperes output
- \* Smart cooling fan
- \* Over temperature protection
- \* Over loading protection
- \* Short circuit protection

#### IMPORTANT SAFETY INSTRUCTIONS

**Danger. To reduce the risk of fire or electric shock, carefully follow these instructions.**

This manual contains important safety and operating instructions for this power supply. Before you use the power supply, read all the instructions and cautionary markings in

this manual, on the power supply, and on the product that you will connect to the power supply, to reduce the risk of injury:

- Do not use the power supply near water (for example, a bathtub, washbowl, kitchen sink, laundry tub, wet basement, or swimming pool).
- Do not place the power supply on an unstable cart, stand or table. If the power supply falls, it could injure a person or cause serious damage to the power supply.
- Do not overload power outlets or extension cords. An overload can result in fire or electric shock.
- Do not disassemble this unit; take it to a qualified service technician when service or repair is required. Improper reassembly may result in a risk of electric shock or fire.
- Do not use an attachment not recommended, this could result in a risk of fire, electric shock, or injury to persons.
- Never push any object into the slot in the power supply. It could touch dangerous voltage points or short out parts resulting in a fire or electrical shock.

**Caution: To reduce the risk of damage:**

- Do not operate the power supply if it has been dropped or damaged in any way. Take it to a qualified service technician for repair.
- The power supply should be operated only from a standard AC outlet that provides 100 - 120V AC (Part No. PSU60ADU) or 200 -240V AC (Part No. PSU60ADE), 50/60 Hz. If you are not sure of the type of power supplied to your home, consult your local power company.
- To protect the power supply during a lightning storm or when it is left unattended and unused for long periods of time, unplug it from the AC outlet. This will prevent damage to the power supply from lightning and power surges.
- Unplug the power supply from the outlet before attempting any maintenance or cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning and then wipe it dry immediately.

- If your power supply does not operate normally, in particular if any unusual sounds or smells come from it, unplug it immediately and contact a qualified service technician for repair.

#### CONNECTIONS

**Caution: Make all other connections before you connect the power supply to standard AC power**

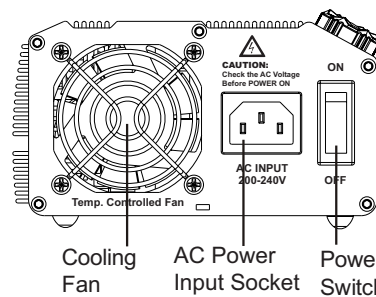
1. Turn the sleeves of the red and black binding output posts counterclockwise to expose the wire hole.
2. Insert the device's positive wire (usually red) into the red binding post's wire hole, then tighten the binding post's sleeve to secure the wire in place.
3. Insert the device's negative wire (usually black) into the black binding post's wire hole, then tightening the binding post's sleeve to secure the wire in place.
4. If you are using the banana plugs connection, insert the plugs into the terminal's jack.

**Warnings:** To avoid damage to both the power supply and the device:

- Follow the correct polarity when connecting the power supply and the device.
- Do not let the ends of the positive and negative wires touch each other.

#### OPERATION

To use the power supply after you connect the device to it, set POWER to turn it on with the power switch



Cooling Fan AC Power Input Socket Power Switch

Please check all connections and confirm the wall AC outlet has power before you switch on the power supply.

If the outlet has power, set POWER to OFF, reduce the load (by using a device that does not require more than 60 amps), then set POWER to ON. Your power supply's overload protection circuit automatically shuts down the power supply when it is overloaded and resets by turning POWER to OFF.

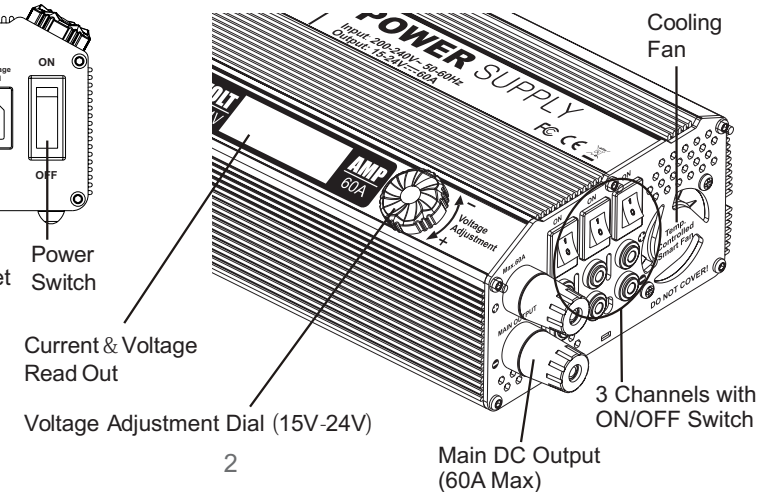
**Caution:** Place your power supply in a well ventilated open and cool area. Do not block the openings at the fan suction on the side and the discharge openings on the other side.

**Caution:** To reduce the risk of energy hazard, be careful not to short the output terminal during operation. Remove the output connections after use.

**Caution:** Your power supply might cause TV or radio interference even when it is operating properly. To determine whether your power supply is causing the interference, turn off your power supply. If the interference goes away, your power supply is causing it.

**Try to eliminate the interference by:**

- Moving your power supply away from the receiver.
- Connecting your power supply to an outlet that is on a different electrical circuit from the receiver.
- Contacting a qualified service technician for help.



Current & Voltage Read Out

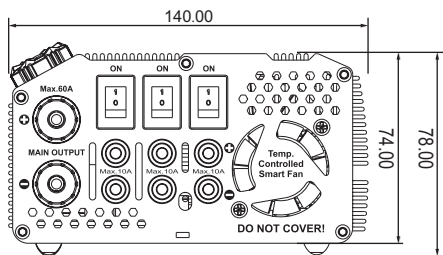
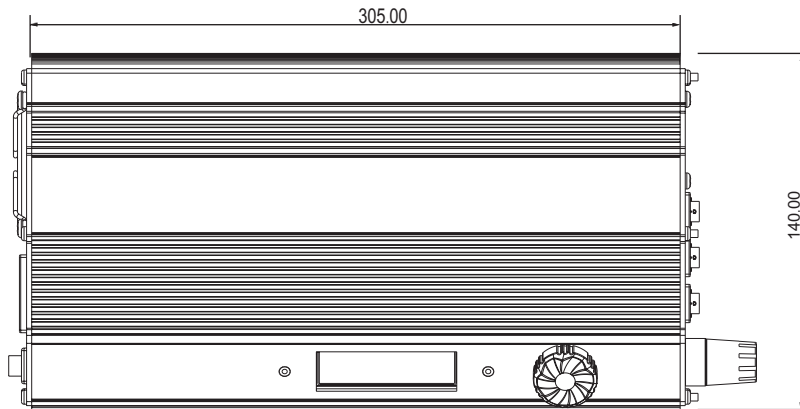
Voltage Adjustment Dial (15V-24V)

Main DC Output (60A Max)

## SPECIFICATIONS

Total Output Power.....	1200 Watts
Voltage.....	100v-120v AC (PSU 60ADU) 200v-240v AC (PSU 60ADE)
Input AC Frequency.....	50Hz/60Hz
Output Voltage.....	15-24V DC±1V
Maximum Output Current .....	60A +/- 3A @20V DC 50A +/- 3A @24V DC
Current Overload Protection.....	≤63A
Input Fuse.....	100v-120v AC 25A Fuse 200v-240v AC 15A Fuse
Output Voltage Ripple.....	<200MV
Power Efficiency.....	>85%
Over Temperature Protection.....	<65°C
Cooling Method.....	Cooling Fan
Operating Temperature.....	0-40°C
Operating Humidity.....	0-90%
Dimensions (L*W*H).....	305x140x78mm
Net weight.....	2.52 kg

**Specifications are typical; individual units might vary. Specifications are subject to change and improvement without notice.**



## PRODUCT WARRANTY

The eFUEL 60A DC switching power supply is guaranteed to be free from defects in materials or workmanship for period of one year from the original date of purchase (verified by dated, itemized sales receipt). Warranty does not cover incorrect AC voltage input, damage to case or exposed circuit boards, disassembling case, tampering with internal electronics, allowing water, moisture, or any other foreign material to enter this Power Supply or get onto the PC board, incorrect wiring of output, allowing exposed wiring to short circuit, or any damage caused by crash, flooding, or act of God. Because SkyRC has no control over the connection & use of the power supply, no liability may be assumed nor will be accepted for any damage resulting from the use of this product. Every power supply is thoroughly tested & burn-in before leaving our factory and is, therefore, considered operational. By the act of operating power supply, user accepts all resulting liability. In no case shall our liability exceed the product's original cost. We

reserve the right to modify warranty provisions without notice.

### Warning:

- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- Children should be supervised to ensure that they do not play with the appliance. WARNING: If the surface is cracked, switch off the appliance to avoid the possibility of electric shock.
- For indoor use only.



Manufactured by  
**SKYRC TECHNOLOGY CO., LTD.**  
www.skyrc.com



© 2012 SkyRC Technology Co., Ltd. All Rights Reserved. No part of these manual may be reproduced without the written permission of SkyRC Technology Co., Ltd.

7504-0240-03

Part No.PSU60ADU,PSU60ADE  
Printed in China.