

INSTRUCTION MANUAL

eFUEL

30A SWITCHING DC POWER SUPPLY

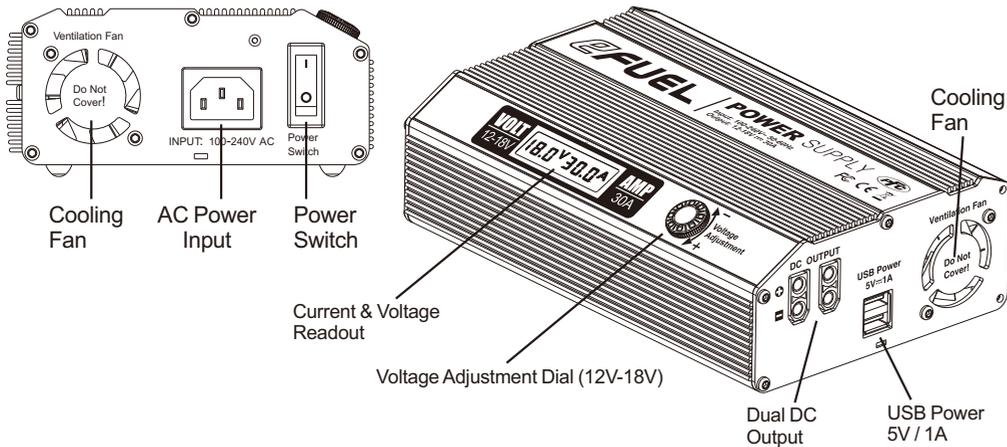
SK-200013

INTRODUCTION

Thank you for purchasing the eFUEL 30A Switching DC Power Supply. We are confident that you will be delighted with its performance because our Switching DC Power Supply is designed and manufactured by skilled professionals using the highest standard in workmanship.

Your eFUEL switching DC Power Supply is designed to use mains electricity to power equipment that requires DC power. The eFUEL converts standard household power 100-240V AC to 12-18V DC power and can supply up to 30 amperes of continuous power.

Dual DC output ports are converted from banana connectors to XT90 battery connectors. It gets more convenient & safe for charging the most popular battery with XT90 connector and avoid the possibilities of reverse polarity.



FEATURES

- * Two DC power outputs, up to 30 amperes
- * Output voltage of adjustable 12-18V
- * Large LCD indicates voltage and current output
- * Two USB ports, 5V/1000mA total for MP3 player, mobile phone, and digital cameras
- * Smart cooling fan
- * Over-temperature protection
- * Overload protection
- * Short circuit protection
- * Overvoltage protection

OPERATION

1. Ensure that the power switch is OFF before connecting to the mains power socket. If the switch is ON, your Power Supply may be damaged due to power surges.
2. Adjust the voltage by rotating the dial according to the loads. (12-18V)
3. Connect the loads. Please check the current of loads should not exceed 30 amperes. When the current is over 30A, the Overload protection procedure will be activated. The Power Supply will cut off the DC output and indicate "OCP" on the display. If you want to reset your Power Supply, TURN OFF the Power Supply, reduce the loads after "OCP" disappear, then TURN ON.

Caution: Remove the output connections after use.

Caution: Place your power supply in a well ventilated open, and cool area. Do not block the fan on both sides.

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

Try to eliminate interference by:

- Keep distance between the power supply and TV or radio.
- Connect the power supply to an outlet on a different electrical circuit from the TV or radio.
- Contact a qualified technician for help.

IMPORTANT SAFETY INSTRUCTIONS

Warning: To reduce the risk of fire or electric shock, carefully follow all the instructions. This manual contains important safety and operating instructions for this power supply. Before you use the power supply, read all the instructions and cautions markings in this manual of the power supply and 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 severe 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. Please take it to a qualified service technician for repair.
- The power supply should be operated only from a standard AC outlet that provides 100-240V, 50-60 Hz. If you are not sure of the type of power supplied to your home, consult your local utility company.

- Unplug the Power Supply from the AC outlet to protect it during lightning or when it is left unattended and unused for a long period. 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 coming from it, unplug it immediately and contact a qualified service technician for repair.

SPECIFICATIONS

Input Voltage.....	100-240V AC
Input Frequency.....	50-60Hz
Output Voltage.....	12-18V DC±0.5V
Output Current.....	30A±1A
Current Overload Protection.....	<31A 500MS
Input Fuse.....	10A Fuse
LCD Display.....	Voltage Precision ±0.3V Current Precision±0.3A
Output Voltage Ripple.....	< 900mV
Power Efficiency.....	89%
Power Factor.....	> 0.98
Over Temperature Protection.....	<65°C
Cooling Method.....	Cooling Fan
Operating Temperature.....	0-40°C
Operating Humidity.....	0-90%
Dimensions (L*W*H).....	218x139x59.5mm
Net weight.....	1.62kg

Specifications are typical; individual units might vary. Specifications are subject to change and improvement 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 the appliance's usage by a person responsible for their safety.
- Children must be supervised to ensure that they do not play with the appliance. WARNING: If the surface is cracked, switch it off to avoid the possibility of electric shock.
- This unit is for indoor use only.



REGULATORY INFORMATION

eFUEL 30A Switching DC Power Supply satisfies all relevant and mandatory CE directives and FCC Part 15 Subpart B: 2011. The product has been tested to meet the following technical standards:

Test Standards	Title	Result
FCC Part 15 Subpart B	Power Line Conducted Emission Test (150KHz To 30MHz)	Conform
FCC Part 15 Subpart B	Radiated Emission Test(30MHz To 1000MHz)	Conform
EN-55032:2012	Power Line Conducted Emission Test (150KHz To 30MHz)	Conform
EN 62368-1:2014+A11:2017	Audio/Video, Information and communication technology	Conform
EN 61000-3-3: 2013	equipment part 1: Safety requirement	Conform
EN 61000-3-2: 2006+	Voltage Fluctuations and Flicker Test	Conform
A1:2009+A2:2009	Harmonic Current Test	Conform
EN 55024:2010	Electrostatic Discharge immunity Test	Conform
EN 55024:2010	RF Field Strength susceptibility Test	Conform
EN 55024:2010	Electrical Fast Transient/BurstImmunity Test	Conform
EN 55024:2010	Surge Immunity Test	Conform
EN 55024:2010	Injected Currents Susceptibility Test	Conform
EN 55024:2010	Voltage Dips and Interruptions Test	Conform
EN55032:2012	Radiated Emission Test(30MHz To 1000MHz)	Conform



This symbol means that you must dispose of electrical from the General household waste when it reaches the end of its useful life. Take your charger to your local waste collection point or recycling center. This applies to all European Union countries and other European countries with a separate waste collection system.

WARRANTY AND SERVICE

We guarantee this product free of manufacturing and assembly defects for one year from the time of purchase. The warranty only applies to material or operational defects, which are present at the time of purchase. We will repair or replace free of service charge for products deemed defective during that period due to those causes.

Note:

1. This warranty is not valid for any damage or subsequent damage arising from misuse, modification or failure to observe the procedures outlined in this manual. The warranty service is valid in China only.
2. If you seek warranty service overseas, please, in the first instance, contact your dealer, who is responsible for processing guarantee claims. Due to high shipping cost, complicated custom clearance procedures to ship back to China, please understand SkyRC can't provide warranty service to the overseas end user directly.
3. If you have any questions which are not mentioned in the manual, please feel free to send an email to info@skycr.com

SKYRC Manufactured by
SKYRC TECHNOLOGY CO., LTD.
www.skycr.com



The manual is subject to change without notice;
 please refer to our website for the latest version!