

INSTRUCTION MANUAL

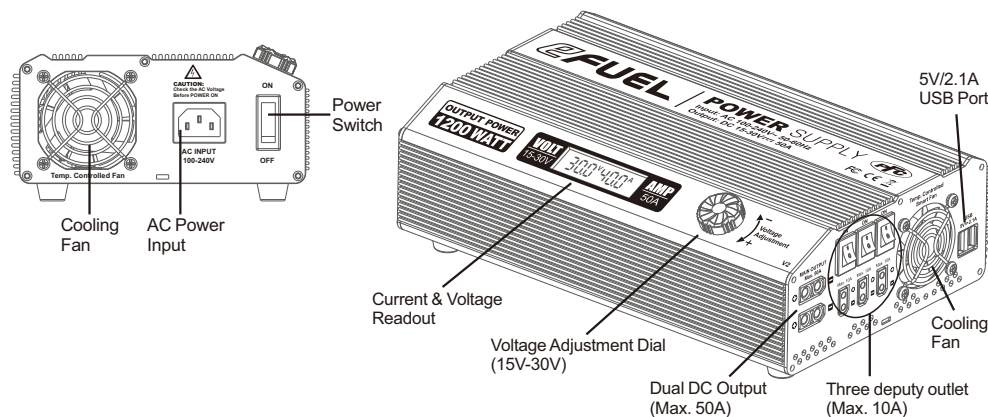
eFUEL 1200W, 50A AC/DC SWITCHING POWER SUPPLY V2 SK-200015

INTRODUCTION

Thank you for purchasing the eFUEL 1200W, 50A AC/DC Switching Power Supply V2. We are confident that you will be very pleased with its performance because our AC/DC Switching 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.

Your eFUEL AC/DC switching Power Supply is designed to use household AC power sources to power devices that demand DC power. The eFUEL converts standard mains power of AC 100-240V to DC 15-30V power and can supply up to 50 amperes of continuous power.

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



FEATURES

- Two main DC outputs(up to 50 amperes), three output(up to 10 amperes each) with ON/OFF switch.
- Output voltage adjustable: 15-30V.
- LCD indicates output voltage and current.
- AC 100-240V worldwide operation: need not any alternative switcher, worldwide safe operation.
- Two USB ports: 5V/2.1A total for iPad, smart phone, digital cameras and etc.
- Smart cooling fans: automatic temperature control.
- Over-current, over-voltage, over-load and over-temperature protection.

OPERATION

1. Ensure the power switch is OFF
2. Connect the load to the POWER SUPPLY
3. Plug the Power Supply into an AC outlet
4. Turn the power switch ON

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

The LCD will display the actual output voltage and current. If the voltage is NOT suitable for your charger or other devices, use the rotary dial to adjust the output voltage.

Output Voltage **VOLT** 15-30V **30.0V** **40.0A** **AMP** 50A Output Current



Output voltage adjustable 15-30V

How to Adjust the Output Voltage?

Press and hold the rotary dial for 3 seconds, and the output voltage value will start to blink, then turn the dial clockwise or counter-clockwise to change the value, press the dial rotary once to confirm the desired value.

NOTE: If you don't press the rotary to confirm for 5 seconds during the process, the power supply will take the present value as you selected automatically.

To take full advantage of eFUEL 1200W's capability, the output voltage should be 24V DC or higher. Per Ohm's law, $24V \times 50A = 1200W$. Therefore, if you want to attain 1200W of output power, the output voltage must be set to 24V or higher.

The actual amount of output current is also limited to 1200 Watts. If the output voltage is 30V, the max current is 40A.

Output Power Chart

Output Voltage(V)	Max Current(A)	Max Power(W)
15	50.0	750
16	50.0	800
17	50.0	850
18	50.0	900
19	50.0	950
20	50.0	1000
21	50.0	1050
22	50.0	1100

Output Voltage(V)	Max Current(A)	Max Power(W)
23	50.0	1150
24	50.0	1200
25	48.0	1200
26	46.2	1200
27	44.4	1200
28	42.9	1200
29	41.4	1200
30	40.0	1200



Warning: Warning: Don't adjust the output voltage when the power supply is working. Or damage may occur to the charger.

WARNING AND ERROR MESSAGE

In case of an error the screen will display the error code as below:

OEP

Over temperature protection.

OCP

Over current protection.

OPP

Over power protection.

The power supply's overload protection circuit automatically shuts down the power supply when overloaded. To reset the power supply, please TURN OFF the power supply, reduce the load after warning signs disappear, then TURN ON.

If OCP or OPP shows on the LCD screen, switch off the power, reduce the load after warning signs disappear, then turn on again.

Helpful Tip:

When this unit is working with Revoelectrix Cellpro Power Lab 8, to maximize its efficiency without damaging eFuel 1200W and Power Lab 8, please set the Power Source of Power Lab 8 as following:

Power Source
>DC Power Source

Supply Current
Limit? >40.0A

Low Sply Limit?
>24.0V

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 time. That 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.

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 the 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.

SPECIFICATIONS

Voltage.....	100-240V AC
Input AC Frequency	50-60Hz
Output Voltage.....	15-30V DC±0.5V
Output Current.....	50A±1A
Current Overload Protection.....	≤ 51A 500MS
Input Fuse.....	20A Fuse
LCD Display.....	Voltage Precision ±0.3V Current Precision ±0.5A
Output Voltage Ripple.....	< 12000mV
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).....	305x170x85mm
Net weight.....	3.08kg

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

PRODUCT WARRANTY

The eFUEL 1200W, 50A AC/DC Switching Power Supply V2 is guaranteed to be free from defects in materials or workmanship for 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.

Note:

1. The warranty service is valid in China only.
2. If you need warranty service overseas, please contact your dealer in the first instance, who is responsible for processing guarantee claims overseas. Due to high shipping cost, complicated custom clearance procedures to send goods back to China. SkyRC don't provide warranty service to overseas end user directly.
3. If you have any questions which are not mentioned in the manual, please feel free to send email to info@skyrc.com

CAUTION

1. 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.
2. Children should be supervised to ensure that they do not play with the appliance.
3. WARNING: If the surface is cracked, switch off the appliance to avoid the possibility of electric shock. For indoor use only.

REGULATORY INFORMATION

eFUEL 1200W, 50A AC/DC Switching Power Supply V2 satisfies all relevant and mandatory CE directives and FCC Part 15 Subpart B: 2012. The product has been tested to meet the following technical standards:

Test Standards	Title	Result
EN 623681:2014+A11:2017	Audio/Video, Information and communication technology equipment part 1: Safety requirement	Conform
EN 55022 : 2010	Main Terminal Disturbance Voltage, 150kHz to 30MHz	Conform
EN 55022 : 2010	Radiation Emission, 30MHz to 1000MHz	Conform
EN 6100-3-2: 2014	Harmonic Current	Conform
EN 6100-3-3: 2013	Voltage Fluctuation and Flicker	Conform
FCC Part 15 Subpart B: 2012	Conducted Emission Test (150kHz To 30MHz)	Conform
FCC Part 15 Subpart B: 2012	Radiated Emission Test(30MHz To 1GHz)	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.

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Manufactured by
SKYRC TECHNOLOGY CO., LTD.
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The manual is subject to change without notice;
please refer to our website for the latest version!

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