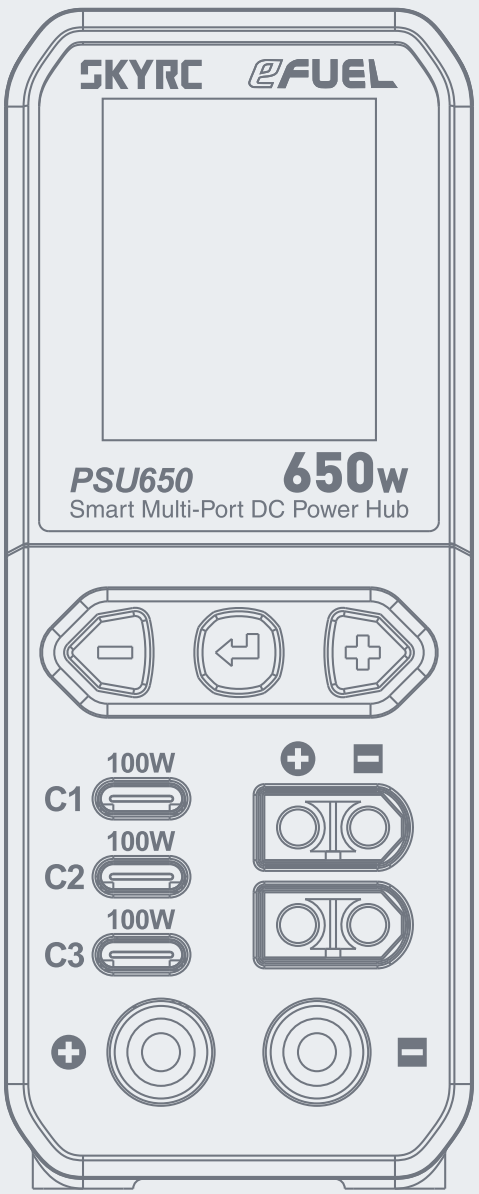
Instruction Manual

v.59

SKYRC



PSU650

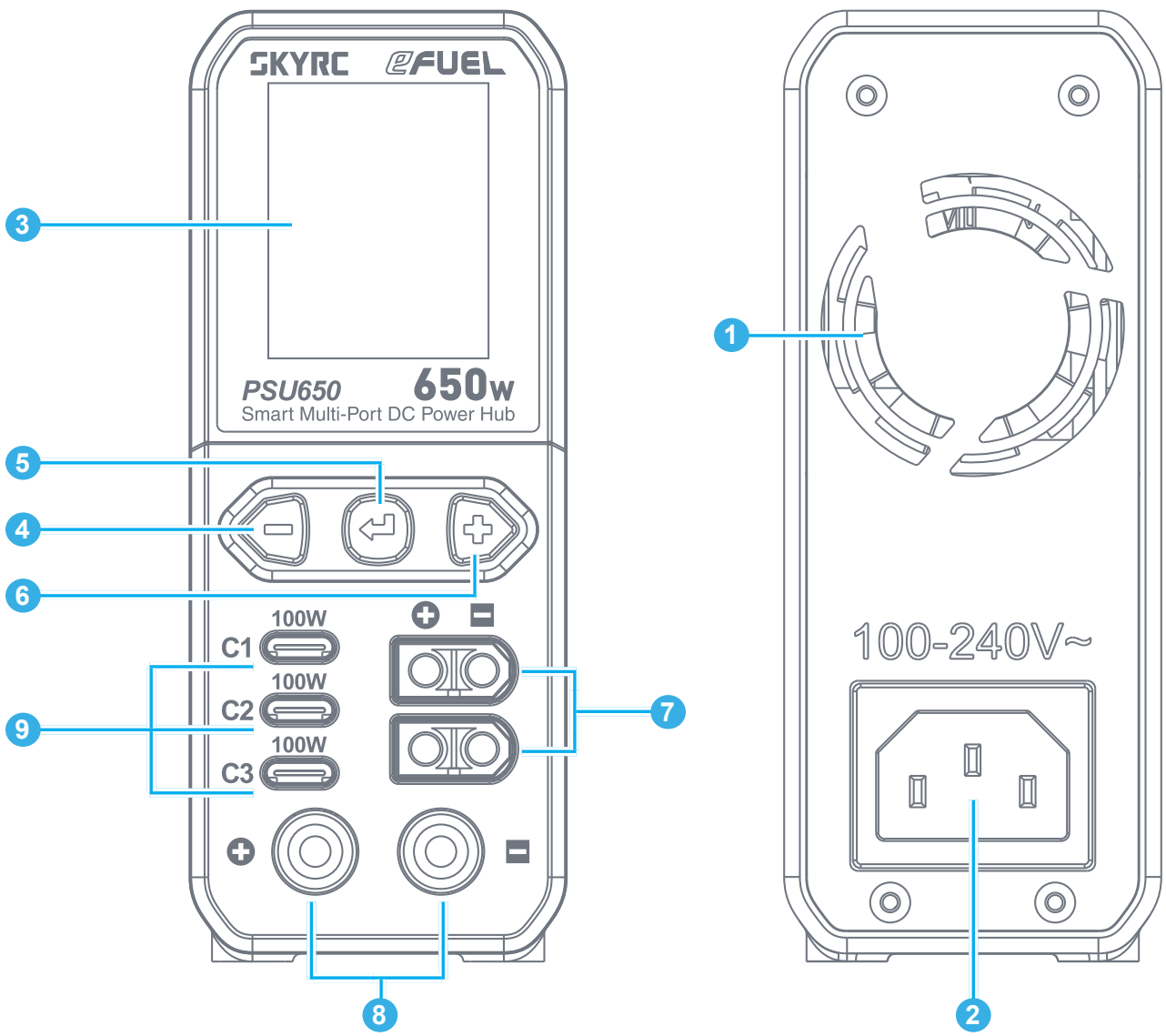
eFUEL 650W Smart Multi-Port DC Power Hub

Introduction

Thank you for choosing the eFUEL 650W Smart Multi-Port DC Power Hub.

The eFUEL 650W converts 100–240V AC input into an adjustable 1–24V DC output, delivering up to 30A of continuous current. With dual XT60 outputs, 4 mm banana terminals, and three USB-C fast-charging ports, it provides a versatile desktop power solution for RC, electronics, and everyday devices.

Getting To Know PSU650



Getting To Know PSU650

1 Cooling Fan **2 AC Power Input** **3 LCD Display**

4 − Button:

a. Decrease value;
b. Short press to navigate;
Press and hold to adjust Voltage;

5 ↵ Enter/Start Button:

a. Short press to confirm the current set value; long press to activate output;
b. Press and hold on the DC/C1/C2/C3 screens to start or stop the respective channel;
Press and hold on the multi-channel home screen to enter System Settings;

6 + Button:

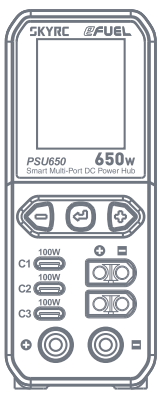
a. Increase value;
b. Short press to navigate;
Press and hold to adjust Current;

7 XT60 Outputs **8 4 mm Banana Outputs** **9 USB-C Ports**

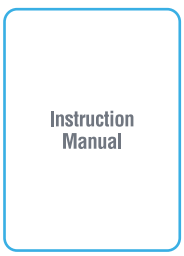
Button Combinations

Press and hold **"+"** and **"−"** buttons simultaneously: Enter DC Power Settings.

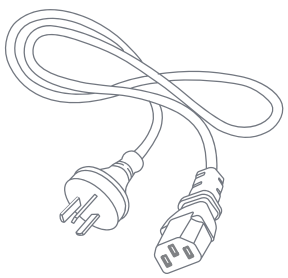
What's Included



eFUEL 650W Power Supply *1



Instruction Manual *1



AC Power Cord *1

Features

- Single High-current Output Supporting up to 30 A;
- Adjustable Output Voltage: 1V–24 V.
- LCD Display: Real-time indication of both output voltage and current;
- Smart Cooling Fan: Automatically adjusts based on internal temperature;
- Comprehensive Protection:
  - Over-current protection (OCP)
  - Over-voltage protection (OVP)
  - Over-temperature protection (OTP)
  - Over-load protection (OLP)
  - Short-circuit protection (SCP)

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 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.
- Do not overload power outlets or extension cords. An overload can result in fire or electric shock.
- 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.
- 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.

Specifications

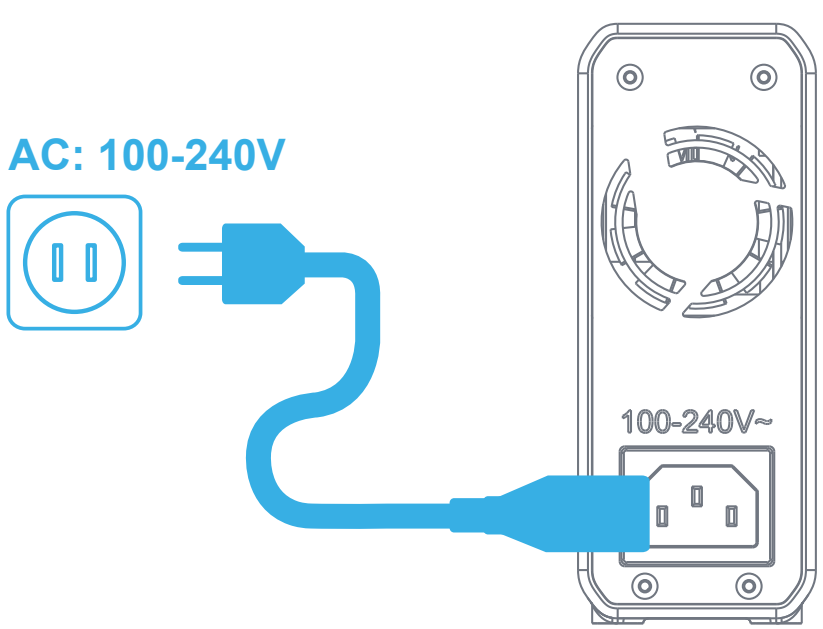
Input Voltage		100V~240V/AC（50Hz/60Hz）
Standby Power	AC110V	2.8W Max
	AC220V	3W Max
Conversion Efficiency	AC230V	＞80%
DC Output Power	AC110V Input	200-500W (Default: 350W, Accuracy: ±10%)
	AC220V Input	200-650W (Default: 350W, Accuracy: ±10%)
USB C1/C2/C3 Output	Output Power	5V/3A, 9V/3A, 12V/3A, 15V/3A, 20V/5A (100W Max.)
Intelligent Power Allocation		When the **DC output power is set above 300W**, the selected power is reserved for the DC output first. The remaining available power is then intelligently distributed among the **C1, C2, and C3 USB-C ports.** **Example:** With **110V AC input**, if the DC output power is set to **350W**, a total of **150W** remains available for C1/C2/C3. Power is allocated according to the following rules: **1. Connection priority:** Power is allocated first to the device connected earliest. Any remaining available power is then allocated to subsequently connected devices. **2. Dynamic allocation:** Available power is automatically redistributed according to the power requirements of connected devices as devices are connected or disconnected.
DC Output Voltage Range		1V~24V Default: 12V
DC Output Current Range		0.1A~30A Default: 20A
DC Voltage Accuracy		±2%
DC Current Accuracy		±2%
DC OVP Setting Range		OFF, 2.0V~25V, Default: OFF
DC OCP Setting Range		OFF, 2.0A~32A, Default: OFF
DC Output Mode		CV/CC
Language		English/简体中文/日本語/Deutsch/Français/Español 默认:English

Specifications

Dimension(L×W×H)		162.5x120x48mm
Weight		0.95kg
Operating Environment	Tempreature	0°C ~ 40°C
	Humidity	5% ~ 75%RH Non-condensing
Storage Environmrent	Tempreature	-10°C ~ 70°C
	Humidity	5%～75%RH Non-condensing

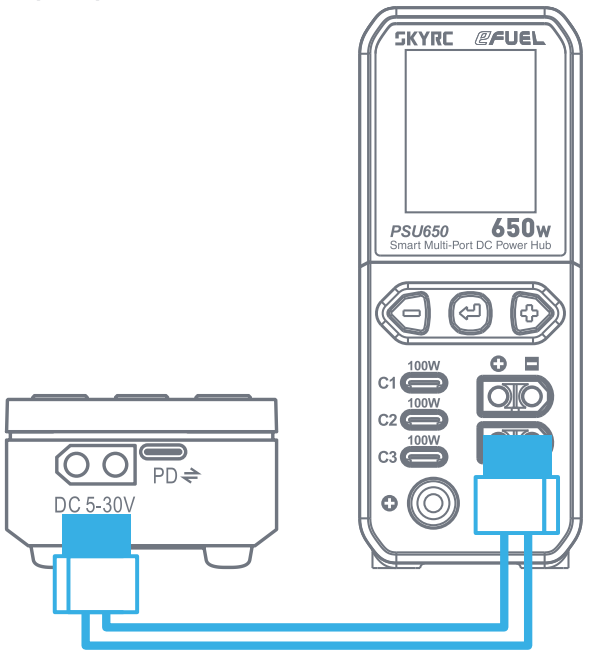
Operating Instrunction

1. Plug the power supply into an AC power outlet.

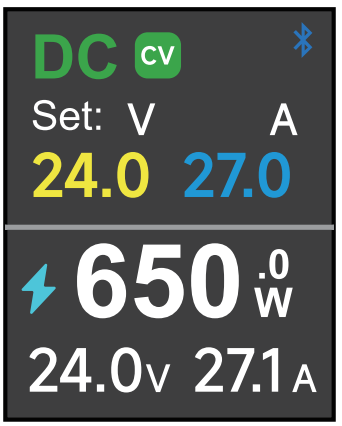


Operating Instrunction

2. Connect your device to the appropriate output port.



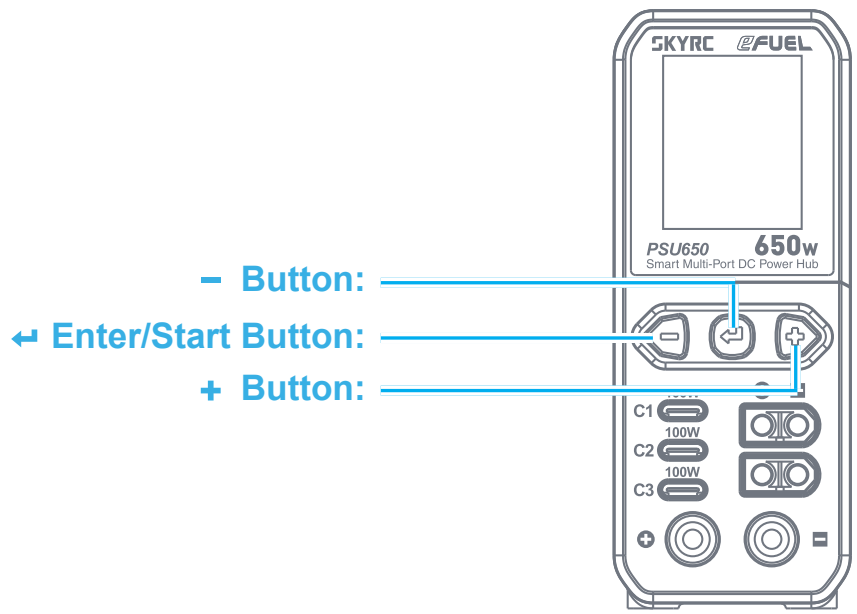
3. Navigate to the desired channel. The LCD displays the output voltage and current in real time.



4. **Set the voltage:** Press and hold the – button to enter, then use the **+ / –** buttons to adjust the value.

5. **Set the current:** Press and hold the + button to enter, then use the **+ / –** buttons to adjust the value.

6. Once the desired values are set, press and hold the **Enter** button to activate the output.



APP Control

PSU650W supports Bluetooth connectivity for wireless monitoring and control through the SkyRC app.

Default App Password: 0000

Bluetooth Identification: The last four digits of the Bluetooth MAC address are displayed on the screen.

Bluetooth Status:
* Disconnected: Bluetooth icon displayed in gray.
* Connected: Bluetooth icon displayed in blue / hidden.

Conformity Declaration

PSU2000 satisfies all relevant and mandatory CE directives and FCC Part 15 Subpart B.

Test Standard	Title	Results
EN 62368-1	Audio/Video, Information and communication technology equipment part 1: Safety requirement	Conform
EN-55032	Electromagnetic compatibility of multimedia equipment - Emission requirements	Conform
EN-55035	Electromagnetic compatibility of multimedia equipment - Immunity requirements	Conform
EN 61000-3-2	Electromagnetic compatibility (EMC) – Part 3-2: – Limits for harmonic current emissions (equipment input current up to and including 16 A per phase)	Conform
EN 61000-3-3	Electromagnetic compatibility (EMC) - Part 3-3: Limitation of voltage supply systems for equipment with rated current ≤ 16 A.	Conform
FCC Part Subpart 15B	Title 47 Telecommunication PART 15 - RADIO FREQUENCY DEVICES Subpart B - Unintentional Radiators	Conform

Warranty and Service

Liability Exclusion

The power supply is designed and approved exclusively for the scenarios stated in this Instruction Manual. SkyRC accepts no liability of any kind if the power supply is used for any purpose other than that stated. We are unable to ensure that you follow the instructions supplied with the power supply, and we have no control over the methods you employ for using, operating, and maintaining the device. For this reason, we are obliged to deny all liability for loss, damage, or costs that are incurred due to the incompetent or incorrect use and operation of our products, or which are connected with such operation in any way. Unless otherwise prescribed by law, our obligation to pay compensation, regardless of the legal argument employed, is limited to the invoice value of those SkyRC products which were immediately and directly involved in the event in which the damage occurred.

Warranty and Service

We guarantee this product to be free of manufacturing and assembly defects for a period of one year from the time of purchase. The warranty only applies to material or operational defects, which are present at the time of purchase. During that period, we will repair or replace free of service charge for products deemed defective due to those causes.
This warranty is not valid for any damage or subsequent damage arising as a result of misuse, modification, or as a result of failure to observe the procedures outlined in this manual.

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 costs, and complicated custom clearance procedures to send back to China, please understand that SkyRC can't provide warranty service to overseas end users directly.
3. If you have any questions which are not mentioned in the manual, please feel free to send an email to support@skyrc.com.

SKYRC

The content is subject to change without notice;
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https://www.skyrc.com

If you have any questions about this document, please contact SkyRC by sending a message to **support@skyrc.com**

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