

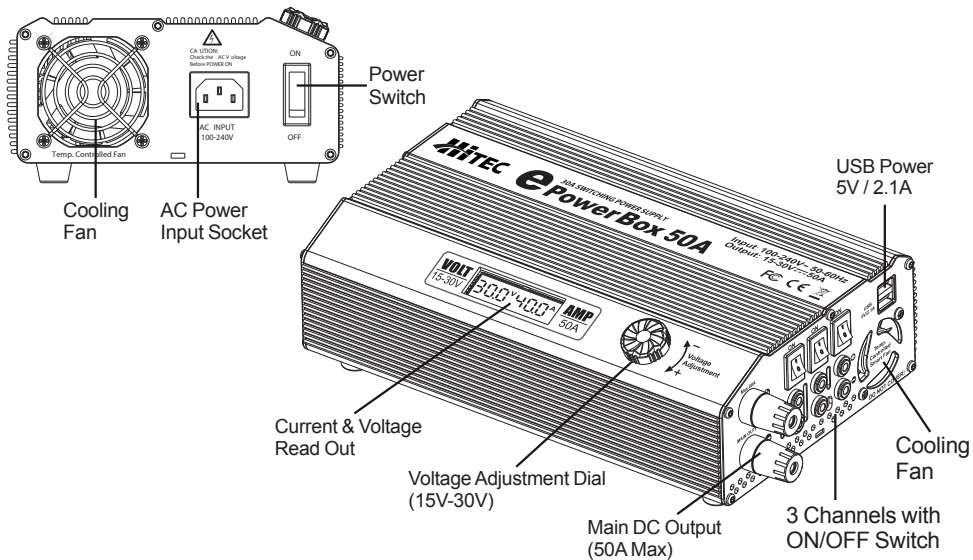
INSTRUCTION MANUAL



50A SWITCHING POWER SUPPLY **ePowerBox 50A**

INTRODUCTION

Thank you for purchasing the ePowerBox 50 Amp Switching DC Power Supply. Designed and manufactured for the most demanding battery chargers, the ePowerBox 50A will deliver consistent, clean power for years of performance and reliability. The ePowerBox 50A converts a standard household power source (100-240 V AC) to DC power (15-30V DC). It can supply up to 50 amps (1200 Watts) of continuous power.



FEATURES

- One Main 50-Amp DC Power Output and Three 10-Amp Outputs with On/Off Switches
- Adjustable Output Voltage 15~30V
- Large LCD Indicates Voltage Output and Current Output (in Amps)
- 100-240VAC Input for Worldwide Operation
- Two USB ports, 5 volts, 2100mA Total for Mobile Devices, Digital Cameras, etc.
- Active Power Factor Correction (PFC)
- Dual Smart Fan Cooling
- Temperature Protection
- Overload Protection
- Short Circuit Protection

SPECIFICATIONS

- AC Input Voltage: 100-240V AC
- AC Input Frequency: 50-60Hz
- Output Voltage: 15-30V DC \pm 0.5V
- Output Current: 50A \pm 1A
- Current Overload Protection: \leq 51A 500MS
- LCD Display Voltage Accuracy: \pm 0.3V
- LCD Display Current Accuracy: \pm 0.5A
- Output Voltage Ripple: $<$ 300mV
- Power Efficiency: 89%
- Power Factor: $>$ 0.98
- Temperature Protection Cutoff : 149°F (65°C)
- Cooling Method: Dual Smart Cooling Fans
- Operating Temperature: 32-104°F (0-40°C)
- Operating Humidity: 0-90%
- Dimensions (L*W*H): 12.0 x 6.7 x 3.3 in (305x170x85mm)
- Net Weight: 6.8lbs. (3.08kg)

IMPORTANT SAFETY INFORMATION

This manual contains important safety and operating instructions. Before you use the power supply, thoroughly read all the instructions and cautionary notes on the power supply and the products you will be connecting to the power supply.

- Do not use the power supply near water, for example: a bathtub, sink, wet basement, swimming pool or in the rain.
- 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 or contact Hitec RCD USA support 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 for this power supply as risk of fire, electrical shock or injury could occur.
- Never force an 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 property damage or injury:

- Do not operate the power supply if it has been dropped or damaged in any way. Contact Hitec RCD USA support for repair.
- The power supply should be operated only from a standard AC outlet that provides 100-240VAC with a frequency range of 50/60Hz.
- To protect the power supply during a lightning storm or when it has been unused for a long period 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, particularly if any unusual sounds or smells are being emitted, unplug it immediately and contact Hitec RCD USA support for repair.

⚠ WARNING – Failure to follow these precautions may result in property damage or injury.

- Please exercise extreme caution when using this product and follow instructions as detailed in this manual.
- Not intended for use by children under 14 years of age.
- If the product appears damaged in any way, immediately discontinue its use and unplug it from the household current.
- Make sure to operate your ePowerBox in a dry, cool, well-ventilated area. Do not block the fan intake and discharge openings on either side.
- To reduce the risk of damage to internal circuitry, be careful not to short the output terminals during operation.
- Never plug or unplug devices when the ePowerBox is powered on.

BINDING POSTS

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 (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 (black) into the black binding post's wire hole, then tighten the binding post's sleeve to secure the wire in place.

BULLET/BANANA PLUGS

1. Turn the red and black binding post sleeves clockwise until secure.
2. Insert the device's positive wire (red) into the end of the red binding post.
3. Insert the device's negative wire (black) into the end of the black binding post.

⚠ WARNING – To avoid damage to both the power supply and the device:

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

OPERATION

1. Plug the ePowerBox 50A into an AC household outlet. Before attaching any devices check to make sure the ePowerBox 50A powers on, once this is done, power it off in order to attach devices.
2. The LCD display indicates the actual output voltage and load current. Use dial rotary dial to adjust the output voltage.



Output Voltage Output Current



Output voltage adjustable 15-30V

⚠ WARNING – Before connecting devices to the ePowerBox 50 DC outputs, make sure the voltage is set within the range of the device manufacturer's recommendations.

3. Connect your devices to the DC outputs ensuring the connections are tightly connected and not loose.
4. After connecting the other devices, turn the power switch ON to operate the power supply. Turn the power supply OFF before connecting and disconnecting any devices.
5. When not in use, make sure to turn the ePowerBox 50A off.

POWER OUTPUT

To take full advantage of ePowerBox 50A's full 1200-watt power capability, the output voltage should be 24VDC or higher. The actual amount of output current fed to the load is limited to 1200 watts. The chart below shows the actual wattage and amperage available at each voltage setting.

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	1200
26	46.2	1200
27	44.4	1200
28	42.9	1200
29	41.4	1200
30	40	1200

WARNINGS AND ERROR MESSAGES

In the event of an operational error, the ePowerBox will display a message indicating the problem.

OEP

Overheating Protection

OCP

Over Current Protection

OPP

Over Power Protection

Your ePowerBox's overload protection circuit automatically shuts down the power supply when it is overloaded. To reset it, turn the power OFF then back ON. If OCP or OPP is displayed on the screen, you must reduce the load before resuming use.

ONE YEAR LIMITED WARRANTY

For a period of one year from the date of purchase HITEC RCD USA, INC. shall REPAIR OR REPLACE, at their option, defective equipment covered by this warranty. This warranty does not cover cosmetic damages and damages due to acts of God, accident, misuse, abuse, negligence, improper installation, or damages caused by alterations by unauthorized persons. This warranty only applies to the original purchaser of this product, who purchased and used the product in the United States of America, Canada and Mexico.

THIS WARRANTY IS IN LIEU OF ANY AND ALL OTHER WARRANTIES, WHETHER FOR MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, WHETHER EXPRESS OR IMPLIED. REPAIR OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE EXCLUSIVE REMEDY. HITEC RCD USA, INC. SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY RELATING TO THIS PRODUCT. EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW.

STATE OF CALIFORNIA PROPOSITION 65 WARNING:

This product contains chemicals known to the State of California to cause cancer. Use caution when handling this product and avoid exposure to any electronic components or internal assemblies.

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