

Operating Manual



PRODIGY 1200W
POWER SUPPLY

Prodigy 1200W Power Supply

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TABLE OF CONTENTS

1 Features.....	01
2 Specifications.....	01
3 Warning & Error Messages.....	01
4 Safety Instructions.....	02
5 Exterior.....	03
6 Operational Instructions.....	03
7 Product Warranty.....	05
8 Safety Messages.....	05

Thank you for purchasing the ProTek R/C Prodigy 1200W Power Supply. This power supply uses an active PFC (Power Factor Correction) and PWM (Pulse-Width Modulation) which allows the power distribution to operate at its maximum efficiency. These technologies are in technical accordance with the standards of Energy Star products. Please read this entire manual carefully before operating the unit.

1 Features

Double DC outputs, up to 1200W/60A

USB port current output 5V@2.1A

Adjustable output voltage, ranges from 12V-24V

Universal AC input voltage range matches worldwide AC voltage

LCD screen indicates the output status

LED indicates the output power percentage

Temperature controlled cooling fan

Gold-plated Banana terminals

Double protection setting, reaction time less than 100 μ s

Protection: Short circuit

Over current

Over temperature

2 Specifications

Input Voltage: 100V to 240V

Input AC Frequency: 50-60Hz

Output Voltage: 12V-24V

Output Current: Max 60A

Power Efficiency: Max 88%

Power Factor: >0.98

Over Temperature Protection : >65C (149°F)

Cooling Method: FAN

Operating Temperature: -10 - 45C [14 - 113°F]

Operating Humidity: \leq 95%

Dimensions: 235x285x84mm

Weight: 3400g

3 Warning & Error Messages



Over load

Over current

Input voltage lower than 100V

Over heating

Short circuit

3 Safety Instructions

Failure to exercise caution while using this product and complying with the following warnings could result in product malfunction, electrical issues, excessive heat, FIRE, and ultimately personal injury and property damage.

Read all safety precautions and literature prior to use of this product.

Never leave the power supply unattended during use.

Never attempt to dismantle the power supply.

Never reverse the positive and negative terminals. It may damage the device.

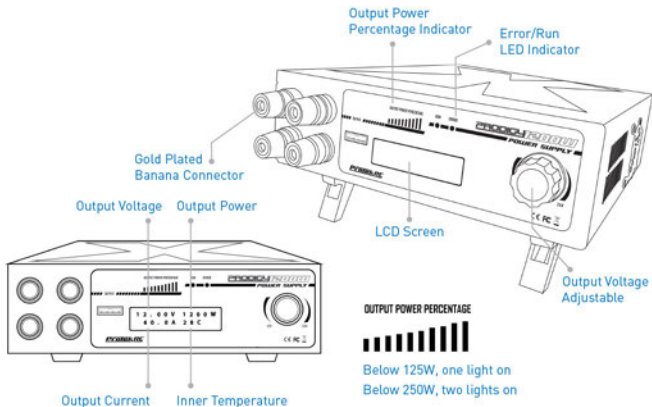
Never allow minors to operate the power supply without adult supervision.

Attention: To reduce the risk of fire or electric shock, carefully follow these instructions. This manual contains precautionary measures and operating instructions for this power supply. Before you use the power supply, read all the instructions and cautionary markings in this manual.

- 1 Do not use the power supply near water (for example, a bathtub, washbowl, kitchen sink, laundry tub, wet basement, or swimming pool).
- 2 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.
- 3 Do not use this item inside of a vehicle.
- 4 This item is to be used only from AC main power. Use caution when using with any other type of power source. IE: AC generator.
- 5 This product is designed for indoor use only. Never attempt to use it outdoors.
- 6 Use the power supply on a fireproof surface.
- 7 Never cover the power supply with clothing, pillows or any other loose item while connected to a power source.
- 8 Never store or use the power supply in direct sunlight.
- 9 Never expose the power supply to any form of moisture. If it gets wet, cease from using it to prevent short-circuiting.
- 10 After use, always disconnect the power supply from the AC mains.
- 11 Never disassemble the power supply.
- 12 Never use this power supply if the case has been removed, or if the leads are frayed or bent.
- 13 Never dispose of the power supply in a fire.

Attention: This item is not suitable for individuals 14 years of age and under. Any use of this item by minors should occur under the close supervision of an adult. This item includes small pieces that may act as a choking hazard. Use and store it well away from small children.

4 Exterior

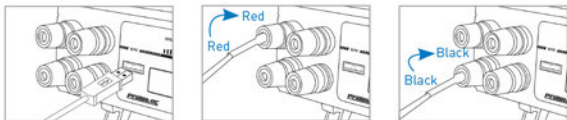


5 Operational Instructions

- 1 Ensure that the power switch is in the "off" position. The toggle switch should be pushed in on the side where there is the "0" marking.



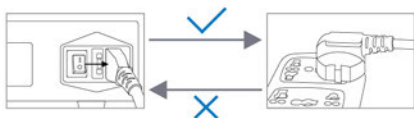
- 2 Attach the power supply from the output terminals to the input terminals on your selected device. Ensure that polarity of this connection is correct, the red (+) terminal on the power supply should match up with the RED terminal and wire on the device, likewise black (-) should match with black (-) on both terminal and device.



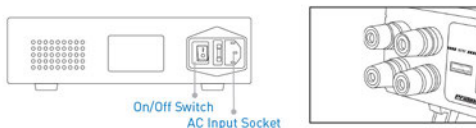
The three Outputs are a parallel circuit, the total output current is 60A, pay attention on the total output current when using.

ATTENTION! Pay careful attention to polarity, crossing or switching polarity could damage the power supply and could lead to causing a fire hazard!!!

- 3 Insert the AC Adapter cord connector into the corresponding socket on the power supply. Then plug the AC Adapter cord into your wall socket.



- 4 Turn the power supply "on" by pressing the power switch so that the vertical line "I" is depressed. The power status LED and LCD screen should illuminate, and the cooling fan will start to work when the inner temperature rises above 40°C (104°F).



- 5 The power supply features overheat short circuit, and excess current protection. If any of these events occur, the power supply will cut-off until the problem is resolved.
- 6 After use, turn the power supply off. Then disconnect it from the AC supply and disconnect the device from the power supply.



7 Product Warranty

ProTek R/C guarantees this item to be free of defects in materials and workmanship for one (1) year after original purchase date. The warranty only applies to material or operational defects that are present at the time of purchase; ProTek R/C reserves the right to repair or replace the item. Warranty will not cover items that have been modified, disassembled, or otherwise misused according to the item's instructions. Proof of purchase is required to submit a warranty claim. ProTek R/C is not responsible for bodily injury and/or property damage that may occur from the use of, or caused by, this item.

8 Safety Messages

IMPORTANT:

- 1 Do not cover the charger during use.
- 2 Do not use or store in an environment below 41°F (5°C) or above 122° (50°C).
- 3 Use the charger carefully and do not operate it in a wet or corrosive environment.
- 4 Do not drop, strike, or shake the charger, and do not place heavy items on the charger.
- 5 Never disassemble the charger.
- 6 Keep the charger away from children and pets at all times.
- 7 Never leave a battery in your model while charging
- 8 Never leave power supply, charger or battery unattended during charging
- 9 Never exceed maximum charge rate
- 10 Never charge with incompatible batteries
- 11 Never charge batteries in wrong mode
- 12 Never over discharge a Lithium battery
- 13 Never charge a damaged or swollen battery
- 14 Never charge near or on flammable materials
- 15 Always ensure proper polarity of plugs
- 16 Always balance charge a LiPo battery
- 17 Always use a LiPo charging bag
- 18 Always use a LiPo specific charger to charge a LiPo
(NiMH or NiCd only chargers WILL NOT WORK!)



Warning: This product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.



THIS PRODUCT IS NOT A TOY! NOT FOR CHILDREN UNDER 14 YEARS.
For proper operation and to avoid risk of damage and injury, read and follow all instructions before operating this product. Failure to comply may result in excessive heat, fire, property damage and serious injury.