BTECH

RPS-50PRO

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IMPORTANT

To ensure maximum performance and safety, please read and follow this user manual carefully. Retain this manual for future reference after installation.

Technical Specifications

Input voltage	110VAC 60Hz
Output voltage	9 - 15V DC regulated or 13.8V DC
Output voltage regulation	< 2%
Protection	Short circuit, automatic current limiting over50A
Output current	50A
Fuse	15A
Meter	Output voltage and current
Dimensions (approx.)	190mm(W)×90mm(H)×280mm(D)
Weight (approx.)	2. 7Kg

Safety Precautions

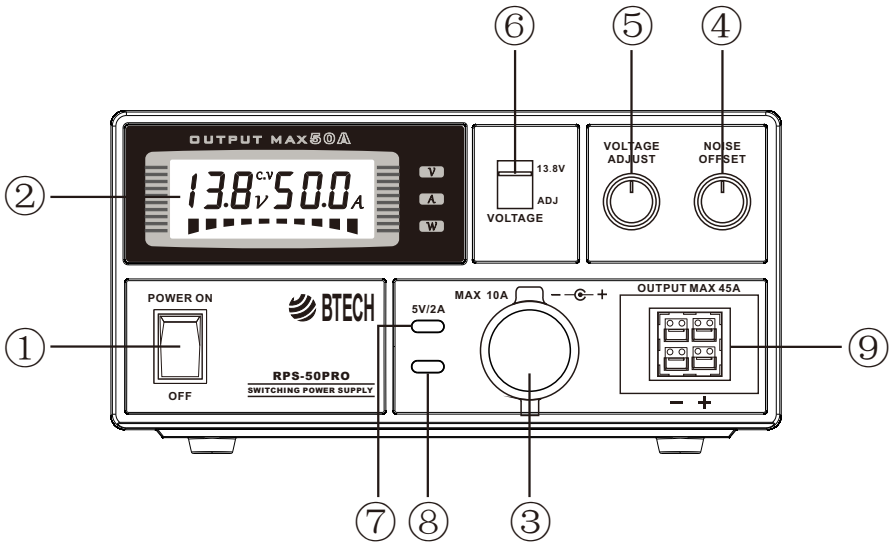


CAUTION

Please follow these safety precautions to prevent injury or damage and to ensure safe and proper operation of the RPS-50PRO Power Supply:

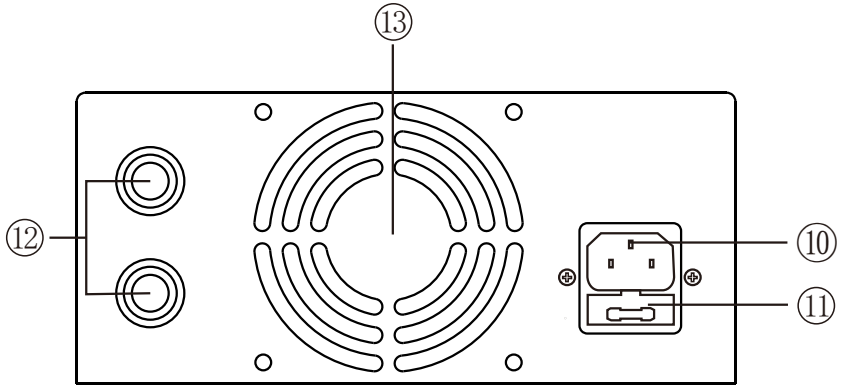
•**Service and Repair**: This Power Supply contains no user-serviceable parts. Always consult a qualified technician for any service or repair needs.
•**Internal Components**: Do not dismantle, modify, or manipulate the interior of the Power Supply. Doing so may result in severe electrical discharge and invalidate your warranty.
•**Power Switching**: Always use the on/off power switch on the Power Supply to turn it on or off. Do not use the mains plug for this purpose.
•**Cable Handling**: Handle the power cable carefully. Avoid pinching, bending, or damaging it.
•**Wet Hands**: Do not operate the Power Supply with wet hands.
•**Stable Installation**: Install the Power Supply on a stable surface in a dry, well-ventilated area.
•**Ventilation**: Do not cover or obstruct the cooling fan located on the back of the Power Supply. Ensure proper ventilation to prevent overheating.
•**Heat Precautions**: The Power Supply may become hot during normal usage. Keep flammable materials away and ensure adequate cooling.
•**Current Limiting Protection**: The Power Supply features a current limiting system that protects the unit from overloading. In the event of a short circuit at the DC output, immediately turn off the Power Supply and repair the cause of the short circuit.
•**Grounding and Connection**: Even though the chassis is negatively grounded, always use the correct terminals when connecting cables.
•**Inappropriate Usage**: Do not use this Power Supply for devices that require high current input at startup (e.g., motorized equipment). It is also not suitable for charging car batteries or for use with car cigarette lighters.
•**Fuse Replacement**: Before replacing the fuse, make sure the Power Supply is off and disconnected from the mains power. Use a fuse of the same type and rating.
•**Grounding**: Always connect the Power Supply to a 110VAC grounded wall outlet to prevent electric shock and reduce electric noise in communications equipment.
•**Emergency Shutdown**: If you notice a burning smell or smoke during operation, turn off the Power Supply immediately, disconnect it from the mains, and consult a qualified technician.
•**Foreign Objects**: Do not insert any objects into the ventilation holes or connectors of the Power Supply.
•**Unused Sockets**: When not using the car cigarette lighter socket, keep it covered with the provided protector.
•**Environmental Conditions**: Avoid exposing the Power Supply to water, moisture, intense vibration, flammable materials, or other dangerous conditions. Do not use in atmospheres with fire or explosion risks.
•**Direct Sunlight**: Do not expose the Power Supply to direct sunlight.
•**Cleaning Instructions**: Ensure the Power Supply is turned off and disconnected from the mains before cleaning. Use a damp (not wet) cloth. Avoid using cleaning polish, detergents, alcohol, or solvents. Do not clean with a dry cloth to prevent static shock or fire.
•**Responsibility**: The safe and proper use of this Power Supply is the sole responsibility of the user. Never allow children to operate the unit.

Controls, Connectors and Functions



1	**Power switch**	Turns the Power Supply (on) and (off).
2	**Meter**	Displays the output voltage (V) and current (A).
3	**Cigarette Plug Terminal**	10A maximum output.
4	**Noise Offset Control Knob**	Adjusts to eliminate pulse noise from the switching circuit. This patent-pending function is designed specifically for communication equipment use. Its effectiveness may vary depending on frequency and mode.
5	**Voltage Adjustment Knob**	Adjusts the output voltage between 9V DC and 15V DC. Turn clockwise to increase the voltage and counterclockwise to decrease it.
6	**Output Control Switch**	Set this switch to the “Adjust” position to use the voltage adjustment knob (⑤) to set the desired output level, or to the “Fixed” position for a fixed output of 13.8V DC.
7	**Type-C Charging Port (1)**	Provides 5V/2A for charging compatible devices.
8	**Type-C Charging Port (2)**	Provides 5V/2A for charging compatible devices.
9	**Output Terminal**	Anderson Powerpole, 45A max. Red terminal is positive, and black terminal is negative.

Controls, Connectors and Functions



10	**Power Cable**	110V AC, 60 Hz (standard North American power supply)
11	**Fuse**	15A
12	**DC Output Terminal**	Red cable connects to the positive (+) terminal, and black cable connects to the negative (-) terminal.
13	**Cooling Fan**	Ensures proper ventilation and cooling during operation. Do not obstruct or cover