

VAR TECH PPS-3010 S

VAR TECH PPS 3010 S Programmable DC Power Supply User Manual

Model: PPS-3010 S

1. INTRODUCTION

This manual provides detailed instructions for the safe and efficient operation of the VAR TECH PPS 3010 S Programmable DC Power Supply. This device is designed for various applications requiring a stable and adjustable DC power source, offering precise control over voltage and current with a USB interface for advanced control.

2. SAFETY INSTRUCTIONS

Please read and understand all safety instructions before operating the device. Failure to comply with these instructions may result in electric shock, fire, or damage to the product.

- Ensure the power supply is connected to a grounded outlet.
- Do not operate the device in wet or damp conditions.
- Avoid blocking ventilation openings to prevent overheating.
- Do not open the casing; there are no user-serviceable parts inside. Refer servicing to qualified personnel.
- Verify correct voltage and current settings before connecting to a load.
- Disconnect power before making or changing connections.

3. PRODUCT FEATURES

The VAR TECH PPS 3010 S offers a range of features for precise power control:

- Programmable Variable DC Power Supply: 30V, 10A output capability.
- USB Interface: For remote control and data logging.
- High-Resolution Display: 5 L.E.D. Multicolour meters with 4 Digits for voltage, current, and power.
- Constant Voltage (CV) and Constant Current (CC) Modes.
- Memory Function: 6 sets of programmable memory for frequently used settings.

- MODBUS-RTU Support: For industrial control applications.
- Panel Lock Facility: Prevents accidental changes to settings.
- Output On/Off Facility: Safely enable or disable output.
- Comprehensive Protection: Over Voltage Protection (OVP), Over Current Protection (OCP), and Over Temperature Protection (OTP).

4. PANEL LAYOUT

Familiarize yourself with the front panel controls and indicators:

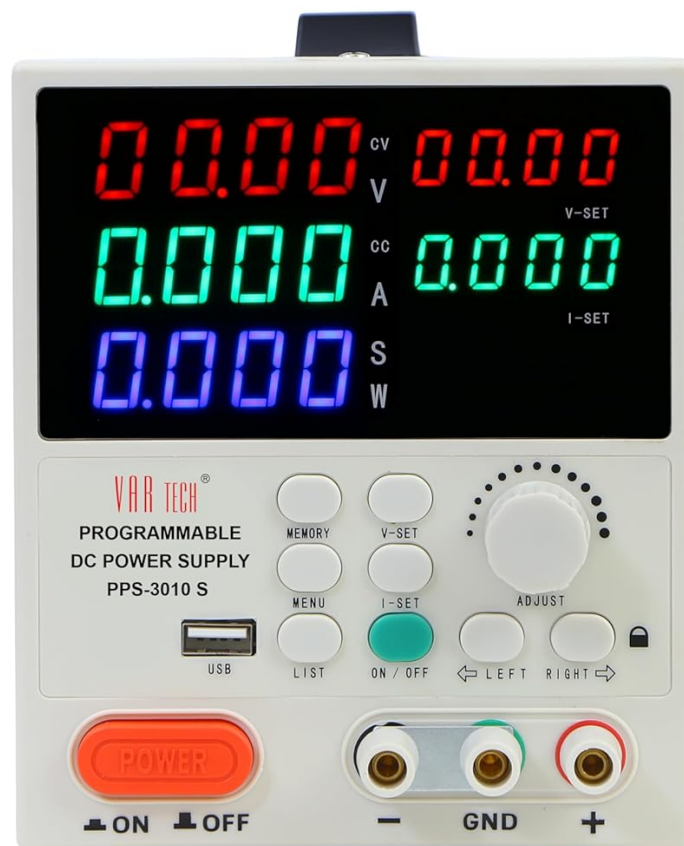


Figure 4.1: Front Panel Overview. This image displays the front panel of the VAR TECH PPS 3010 S, showing the digital displays for voltage, current, and power, along with control buttons, adjustment knob, USB port, and output terminals.



Figure 4.2: Angled View. This image shows the VAR TECH PPS 3010 S from an angled perspective, highlighting the side ventilation grilles and the integrated carrying handle, in addition to the front panel controls.

Front Panel Components:

- **Digital Displays:** Multi-color LED displays for Voltage (V), Current (A), and Power (W).
- **V-SET / I-SET:** Buttons to select voltage or current adjustment mode.
- **ADJUST Knob:** Rotary encoder for fine adjustment of selected parameters.
- **MEMORY:** Buttons to save and recall settings (M1-M6).
- **ON/OFF:** Button to enable or disable the output.
- **USB Port:** For PC connectivity and remote control.
- **POWER Switch:** Main power toggle for the unit.
- **Output Terminals:** Positive (+), Negative (-), and Ground (GND) terminals.

5. SETUP

1. **Unpacking:** Carefully remove the power supply from its packaging. Inspect for any signs of damage.
2. **Placement:** Place the unit on a stable, level surface with adequate ventilation around all sides. Ensure no objects obstruct the cooling vents.
3. **Power Connection:** Connect the provided power cord to the AC inlet on the rear panel and then to a grounded electrical outlet.
4. **Initial Power On:** Flip the main POWER switch on the front panel to the 'ON' position. The displays should illuminate.

6. OPERATING INSTRUCTIONS

6.1. Setting Voltage and Current

1. Press the **V-SET** button to enter voltage setting mode. The voltage display will blink.
2. Rotate the **ADJUST** knob to set the desired output voltage. Press the knob to switch between coarse and fine adjustment.
3. Press the **I-SET** button to enter current setting mode. The current display will blink.
4. Rotate the **ADJUST** knob to set the desired output current limit. Press the knob to switch between coarse and fine adjustment.
5. Once settings are complete, press the **V-SET** or **I-SET** button again to exit setting mode, or wait a few seconds for it to exit automatically.

6.2. Enabling Output

After setting the desired voltage and current, press the **ON/OFF** button to enable the output. The output indicator will illuminate, and the actual output voltage and current will be displayed.

6.3. Memory Functions

The unit supports 6 memory presets (M1-M6) to store and recall frequently used settings.

- **Saving Settings:** Set the desired voltage and current. Press and hold one of the **MEMORY** buttons (e.g., M1) for a few seconds until the display confirms the save.
- **Recalling Settings:** Press the desired **MEMORY** button (e.g., M1) briefly to recall the stored settings.

6.4. Panel Lock

To prevent accidental changes to settings, activate the Panel Lock feature. Refer to the detailed instructions in the full manual for the specific button combination to activate/deactivate this feature.

6.5. USB Interface and MODBUS-RTU

The USB interface allows for remote control and monitoring of the power supply via a computer. The device supports MODBUS-RTU commands for integration into automated systems. Detailed communication protocols and software drivers are typically provided on the manufacturer's website or included with the product on a CD/USB drive.

7. MAINTENANCE AND CARE

- **Cleaning:** Disconnect power before cleaning. Use a soft, dry cloth to wipe the exterior. Do not use abrasive cleaners or solvents.

- **Ventilation:** Regularly check that the ventilation openings are clear of dust and debris.
- **Storage:** Store the unit in a cool, dry place away from direct sunlight and extreme temperatures.
- **Calibration:** Periodic calibration by qualified personnel may be required to maintain accuracy.

8. TROUBLESHOOTING

- **No Power:** Check the power cord connection and the main power switch. Ensure the wall outlet is functional.
- **No Output:** Ensure the output is enabled by pressing the **ON/OFF** button. Check if OVP, OCP, or OTP protection has been triggered. Reduce load or adjust settings if necessary.
- **Incorrect Readings:** Verify connections to the load. If readings are consistently inaccurate, the unit may require calibration.
- **USB Communication Issues:** Ensure the correct drivers are installed on your computer. Check the USB cable connection.

9. TECHNICAL SPECIFICATIONS






Parameter	Specification
Brand	VAR TECH
Model	PPS-3010 S
Output Voltage	0-30V DC (Adjustable)
Output Current	0-10A DC (Adjustable)
Output Wattage	300 Watts
Display	5 L.E.D. Multicolour, 4 Digits
Protection	OVP, OCP, OTP
Interface	USB (MODBUS-RTU support)
Product Dimensions (LxWxH)	26 x 16 x 12.5 cm
Item Weight	3 kg
Country of Origin	China

10. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please contact VAR TECH directly.

- **Manufacturer/Importer:** V A R TECH - Bengaluru, India
- **E-mail:** info@var-tech.com
- Please have your model number (PPS-3010 S) and purchase date available when contacting support.

Related Documents - PPS-3010 S

 <p>VAR TECH® DIGITAL MULTIMETER Model: V 92 S 3 5/6 Digit (6000 Counts) TRUE RMS, NCV, MAEST Primary & Secondary Display Auto Ranging, Low, Zero, Hold, & Temperature Measurement A.C. 50, 60Hz, 50V, 50A & Torch A.V. Continuity & Diode Test WIFI HOLDSITE</p> <table border="1"><thead><tr><th colspan="2">Specifications</th></tr></thead><tbody><tr><td>DC Voltage</td><td>1000V, 200V, 20V, 2V, 0.2V, 0.02V</td></tr><tr><td>AC Voltage</td><td>750V, 200V, 20V, 2V, 0.2V, 0.02V</td></tr><tr><td>DC Current</td><td>10A, 2000mA, 200mA, 20mA, 2mA, 0.2mA, 0.02mA</td></tr><tr><td>AC Current</td><td>10A, 2000mA, 200mA, 20mA, 2mA, 0.2mA, 0.02mA</td></tr><tr><td>Resistance</td><td>100M, 10M, 1M, 100K, 10K, 1K, 100, 10, 1, 0.1, 0.01, 0.001, 0.0001, 0.00001, 0.000001</td></tr><tr><td>Capacitance</td><td>100,000, 10,000, 1,000, 100, 10, 1, 0.1, 0.01, 0.001, 0.0001, 0.00001, 0.000001</td></tr><tr><td>Frequency</td><td>50, 60, 100, 200, 500, 1000, 2000, 5000, 10000, 20000, 50000, 100000, 200000, 500000, 1000000</td></tr><tr><td>Temperature</td><td>-10, 0, 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, 140, 150, 160, 170, 180, 190, 200, 210, 220, 230, 240, 250, 260, 270, 280, 290, 300, 310, 320, 330, 340, 350, 360, 370, 380, 390, 400, 410, 420, 430, 440, 450, 460, 470, 480, 490, 500, 510, 520, 530, 540, 550, 560, 570, 580, 590, 600, 610, 620, 630, 640, 650, 660, 670, 680, 690, 700, 710, 720, 730, 740, 750, 760, 770, 780, 790, 800, 810, 820, 830, 840, 850, 860, 870, 880, 890, 900, 910, 920, 930, 940, 950, 960, 970, 980, 990, 1000</td></tr><tr><td>Other Features</td><td>NCV, MAEST, Primary & Secondary Display, Auto Ranging, Low, Zero, Hold, & Temperature Measurement, A.C. 50, 60Hz, 50V, 50A, & Torch, A.V. Continuity & Diode Test, WIFI HOLDSITE</td></tr></tbody></table>	Specifications		DC Voltage	1000V, 200V, 20V, 2V, 0.2V, 0.02V	AC Voltage	750V, 200V, 20V, 2V, 0.2V, 0.02V	DC Current	10A, 2000mA, 200mA, 20mA, 2mA, 0.2mA, 0.02mA	AC Current	10A, 2000mA, 200mA, 20mA, 2mA, 0.2mA, 0.02mA	Resistance	100M, 10M, 1M, 100K, 10K, 1K, 100, 10, 1, 0.1, 0.01, 0.001, 0.0001, 0.00001, 0.000001	Capacitance	100,000, 10,000, 1,000, 100, 10, 1, 0.1, 0.01, 0.001, 0.0001, 0.00001, 0.000001	Frequency	50, 60, 100, 200, 500, 1000, 2000, 5000, 10000, 20000, 50000, 100000, 200000, 500000, 1000000	Temperature	-10, 0, 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, 140, 150, 160, 170, 180, 190, 200, 210, 220, 230, 240, 250, 260, 270, 280, 290, 300, 310, 320, 330, 340, 350, 360, 370, 380, 390, 400, 410, 420, 430, 440, 450, 460, 470, 480, 490, 500, 510, 520, 530, 540, 550, 560, 570, 580, 590, 600, 610, 620, 630, 640, 650, 660, 670, 680, 690, 700, 710, 720, 730, 740, 750, 760, 770, 780, 790, 800, 810, 820, 830, 840, 850, 860, 870, 880, 890, 900, 910, 920, 930, 940, 950, 960, 970, 980, 990, 1000	Other Features	NCV, MAEST, Primary & Secondary Display, Auto Ranging, Low, Zero, Hold, & Temperature Measurement, A.C. 50, 60Hz, 50V, 50A, & Torch, A.V. Continuity & Diode Test, WIFI HOLDSITE	<p>VAR TECH V 92 S Digital Multimeter - True RMS, Auto Ranging Specifications</p> <p>Explore the comprehensive specifications of the VAR TECH V 92 S Digital Multimeter. This advanced device features a 3 5/6 digit (6000 counts) display, True RMS measurement, Auto Ranging, NCV detection, Data Hold, and a built-in torch. Ideal for professionals and hobbyists requiring precise electrical measurements.</p>
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 <p>VAR TECH® Slim D.C. Power Supplies 3005 S, 3010 S, 6005 S 1000W, 2000W, 3000W, 4000W, 5000W, 6000W, 7000W, 8000W, 9000W, 10000W, 11000W, 12000W, 13000W, 14000W, 15000W, 16000W, 17000W, 18000W, 19000W, 20000W, 21000W, 22000W, 23000W, 24000W, 25000W, 26000W, 27000W, 28000W, 29000W, 30000W, 31000W, 32000W, 33000W, 34000W, 35000W, 36000W, 37000W, 38000W, 39000W, 40000W, 41000W, 42000W, 43000W, 44000W, 45000W, 46000W, 47000W, 48000W, 49000W, 50000W, 51000W, 52000W, 53000W, 54000W, 55000W, 56000W, 57000W, 58000W, 59000W, 60000W, 61000W, 62000W, 63000W, 64000W, 65000W, 66000W, 67000W, 68000W, 69000W, 70000W, 71000W, 72000W, 73000W, 74000W, 75000W, 76000W, 77000W, 78000W, 79000W, 80000W, 81000W, 82000W, 83000W, 84000W, 85000W, 86000W, 87000W, 88000W, 89000W, 90000W, 91000W, 92000W, 93000W, 94000W, 95000W, 96000W, 97000W, 98000W, 99000W, 100000W</p> <table border="1"><thead><tr><th colspan="2">Specifications</th></tr></thead><tbody><tr><td>Output Voltage</td><td>0.1V, 0.2V, 0.5V, 1V, 2V, 5V, 10V, 20V, 50V, 100V, 200V, 500V, 1000V</td></tr><tr><td>Output Current</td><td>0.1A, 0.2A, 0.5A, 1A, 2A, 5A, 10A, 20A, 50A, 100A, 200A, 500A, 1000A</td></tr><tr><td>Power</td><td>100W, 200W, 500W, 1000W, 2000W, 5000W, 10000W, 20000W, 50000W, 100000W</td></tr><tr><td>Efficiency</td><td>> 90%</td></tr><tr><td>Regulation</td><td>< 0.1%</td></tr><tr><td>Load Regulation</td><td>< 0.1%</td></tr><tr><td>Line Regulation</td><td>< 0.1%</td></tr><tr><td>Temperature Coefficient</td><td>< 0.1%</td></tr><tr><td>Other Features</td><td>Over Voltage Protection, Over Current Protection, Over Temperature Protection, Short Circuit Protection, Load Regulation, Line Regulation, Temperature Coefficient, Efficiency, Power, Output Voltage, Output Current</td></tr></tbody></table>	Specifications		Output Voltage	0.1V, 0.2V, 0.5V, 1V, 2V, 5V, 10V, 20V, 50V, 100V, 200V, 500V, 1000V	Output Current	0.1A, 0.2A, 0.5A, 1A, 2A, 5A, 10A, 20A, 50A, 100A, 200A, 500A, 1000A	Power	100W, 200W, 500W, 1000W, 2000W, 5000W, 10000W, 20000W, 50000W, 100000W	Efficiency	> 90%	Regulation	< 0.1%	Load Regulation	< 0.1%	Line Regulation	< 0.1%	Temperature Coefficient	< 0.1%	Other Features	Over Voltage Protection, Over Current Protection, Over Temperature Protection, Short Circuit Protection, Load Regulation, Line Regulation, Temperature Coefficient, Efficiency, Power, Output Voltage, Output Current	<p>VAR TECH Slim D.C. Power Supplies 3005 S, 3010 S, 6005 S - Technical Specifications</p> <p>Detailed specifications and features of VAR TECH's Slim D.C. Power Supplies, including models 3005 S, 3010 S, and 6005 S, designed for performance and reliability in education and electronics industries.</p>
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 <p>VAR TECH® Electronic Test & Measuring Instruments Electronic Repair & Production Tools QUALITY • RELIABILITY • ECONOMY RECOMMENDED</p>	<p>VAR TECH Short Form Catalogue 2025-2026: Electronic Test & Measuring Instruments</p> <p>VAR TECH's short form catalogue for 2025-2026 features a wide range of electronic test and measuring instruments, including digital multimeters, clamp meters, DC/AC power supplies, oscilloscopes, soldering stations, and calibrators, emphasizing quality, reliability, and economy.</p>																				



Features

- 3 1/2 Digits 8000 Counts
- 600V AC/DC Voltage
- 1000A AC/DC Current
- 2000V AC/DC Voltage
- True RMS, Auto Ranging
- Capacitance, Frequency, Temperature Measurements
- In-Rush Current & V.F.C.
- Data Hold, Backlight, Torch, Continuity, Diode Test, NCV, and Live Wire Test

Specifications

Parameter	Specification
Display	3 1/2 Digits 8000 Counts
AC Voltage	600V AC, 1000V AC, 2000V AC
DC Voltage	600V DC, 1000V DC, 2000V DC
AC Current	1000A AC, 1000A DC, 2000A AC
DC Current	1000A DC, 1000A AC, 2000A DC
Resistance	200Ω to 20MΩ
Capacitance	20nF to 2000μF
Frequency	50Hz to 500Hz
Temperature	-10°C to 50°C
In-Rush Current	1000A to 2000A
V.F.C.	0.5V to 50V
Data Hold	Yes
Backlight	Yes
Torch	Yes
Continuity	Yes
Diode Test	Yes
NCV	Yes
Live Wire Test	Yes

[VAR TECH V 2101+ Digital Clamp Multimeter: Features & Specifications](#)

Explore the VAR TECH V 2101+ Digital Clamp Multimeter. This device offers 3 5/6 digits (6000 counts), 1000A AC/DC current measurement, 2000V AC/DC voltage, True RMS, and auto-ranging capabilities. It includes features like capacitance, frequency, temperature measurements, In Rush Current, V.F.C., Data Hold, Backlight, Torch, Continuity, Diode Test, NCV, and Live Wire Test. Detailed specifications and supplied accessories are provided.