
PEPETOOLS INTELLIGENT POWER SUPPLY

CE Certified

Patent Pending

THE WORLD'S FIRST – ALL IN ONE PLATING SYSTEM.

CONGRATULATIONS, on your purchase of Pepetools Intelligent Power Supply.

Engineered to fulfill the needs of jewelers and plating professionals. This state of the art device is built upon on transformer-less PC Architecture. The software was coded specifically for the hardware to create a system with intuitive and easily configurable programming*. No other devices on the market offers anywhere near the range of features, precision or affordability as Pepetools IPS.

When using Pepetools Professional Intelligent Power Supply - even the most challenging galvanic operations are perform with ease, precision and professional results.

Included in the box:

- 1 Intelligent Power Supply-IPS
- 1 AC Power Cord
- 1 1 Set of Lead Wires
- 1 User Manual

Included with the IPS PRO Models:

- 1 Immersion Heating Element

Optional Equipment:

- 1 2.1mm Connector Cord for MixAmatic
- 1 External Light for Process Indicator

NOTE: Warranty will be void if security label removed.

USER MANUAL

The manual contains information for all models of the Pepetools IPS series.

It provides information for a correct installation and basic recommendations for use of the machine according to the project hypotheses and technical features, as well as information regarding residual risks.

BASIC OPERATION

Turning IPS “ON”

1. Plug the AC cord into the outlet. The source voltage will detect automatically.
2. Connect the lead wires to the DC output terminals.
3. Turn the power switch to “ON” position.

Turning IPS “OFF”

1. Turn the power switch to “OFF” position
2. Disconnect the Power cord from the outlet.

SAFETY INSTRUCTIONS

- Do not expose the PS to rain or moisture.
- Do not disassemble the device.
- Do not jerk the power cord.
- Do not block the ventilation holes.
- Place PC on a flat stable surface and at least 4” (100mm) away from the walls for good air circulation.
- Do not place heavy objects on the PC.
- When IPS not used for an extended period, disconnect the AC cord.
- We strongly recommend the use of a surge protector.



This is a class A product. In a residential, commercial or light industrial environment, it may cause radio interference. This product is not intended to be installed in a residential environment; in a commercial and light industrial environment with connection to the public mains supply, the user may be required to take adequate measures to reduce interference.

GENERAL SPECIFICATIONS & PARAMETERS

Nominal input:	110VAC / 220VAC; 50/60Hz
Input range:	105-132VAC / 200-248VAC; 50/60Hz
Phase Current	6.0A/110V
(at nominal output power/ voltage)	3.0A/220V

Output:

Model UA12V10ART	12VDC / 10A
Model UA18V18ART	18VDC / 18A
Model UA12V25ART	12VDC / 25A

Efficiency	>= 85%
Operating Temperature	+5°C - +40°C
Dimensions	10x150x260mm (WxHxD)
Weight	1.9kg

Adjustable voltage stabilization mode:

Output Voltage Adjustment:

UA12V10ART	0.35VDC - 12VDC
UA12V25ART	0.35VDC - 12VDC
UA18V18ART	0.35VDC - 18VDC

Output Voltage Accuracy	<= 0.2%
Output Voltage Adjustment Resolution (step)	10mV
Output Voltage Ripple and Noise (under maximum load)	<= 1%
Instability of Terminal Voltage Output (Depends on external factors)	<= 1%

Adjustable load current stabilization mode:

Load Current Adjustment:

UA12V10ART	0.01 - 10A
UA12V25ART	0.01 - 25A
UA18V18ART	0.01 - 18A

Load Current Accuracy	<= 1%
Load Current Adjustment Resolution (step)	10mA
Load Current Ripple and Noise (under maximum load)	<= 1%
Instability of Load Current (Depends on external factors)	<= 1%

Timer adjustment

Maximum Time	9hrs 59min
Adjustment Precision	1 second

Pulse Voltage mode

Positive / Negative Pulse Duration	0.1 - 90min
Adjustment Precision	1 second

Heater Input/output

Heater Nominal Power	140W
Temperature units (User Selectable)	C° / F°
Temperature Range	1°– 85°C / 33° - 185°F
Temperature Adjustment (step)	1°C / 1°F

For additional information visit www.pepetools.com

GENERAL INFORMATION



No Description

- 1 Power entry
- 2 ON/OFF Switch
- 3 Encoder
- 4 Display
- 5 USB for Factory use only
- 6 Platter power output
- 7 +5V DC, 1A – power output for MixAmatic* or Process Indicator*
- 8 Heater Connector *
- 9 Cooling Fan

* Available if the device is equipped with the Heater option.

*MixAmatic and Process Indicator are optional equipment. To be purchased separately.

Controls and Lights

Controls

Rotary encoder rotation – scroll between menu entities and set values.

Rotary encoder pushbutton – short pressing enter in sub-menu, select/deselect values in edit mode.

Rotary encoder push button – pressing press and holding for more than 3 seconds will take you back to main menu and put the device into standby mode (switch off power supply and heater)

LEDs

Standby backlight LEDs - ON.

Plating and/or heating backlight, front and side LEDs - ON

Error backlight, front and side LEDs blinking.

ROTARY ENCODER

RGB LED

Light off on standby.

Blue light heater is on, temperature is below 3 degree from set temperature.

Purple light - heater is on, temperature is between 3 and 0 degree from set temperature.

Green light - heater is on and ready (reaches the set temperature).

Yellow Light – Power Limit output by current

Blinking Red Light – Device Fault

MENU

Using the encoder select the appropriate menu:

Start program

Short pressing start/stop program alternative, long pressing will back to main menu.

Line 1 – Start selected program – 1-5 or Sequence

Line 2 – Select program

Line 3 – Exit - Back to main menu

Start program

Line 1 – Active program (“P” – single program, “S” - programs sequence)

Line 2 – Output voltage and plate time

Line 3 – Output current and plate reverse time

Line 4 – Heater Temperature; Delay Time Before it reaches temperature and starts the plate process or the end of program delay, depending on the program setup

NOTE: Depending on configuration, when some features are disabled, missing or not used (for example heating), the menus for related option will not display.

The symbol ◀ show current active process step

Depending on state of process, values show measured or rest of time to end of the step, or pre-set value.

Select program

Short pressing and select program form 1-5, or sequence of programs, long pressing will back to main menu.

Exit

Output - Back to main menu.

Heater setup*

Set-up heater mode.

Line 1- heater On/Off control

Line 2 – Temperature set point

Line 3 – Temperature units – Celsius or Fahrenheit degrees.

Line 4 – Exit – Back to main menu.

Note: The unit will not turn ON heater, if heater isn't connected.

* - Available if the device has a Heater option.

Program setup

Configure program

Programs 1 to 5.

Line 1 – Select current active program

Line 2 – Reverse time from 0 – 90 minute, step 1 sec

Line 3 – Plate time from 0 to 9 hours and 59 minute, step 1 sec

Line 4 – Temperature from 0-99 °C (0 – 210°F depending of temperature units setting), when is 0, device will not turn on the heater*)

Line 5 – Plate voltage – from 0.5 to 12V (for P12V25Ax)

Line 6 – Plate current limit – from 0 to 25 A (for P12V25Ax)

Line 7 – Delay after end of plate process

Line 8 – Exit - Back to main menu

Note: Depending on configuration, when some of features are disabled or missing (for example output voltage reverse) menus for related option will not display.

* Available if the device has a Heater option.

Setting Sequence program

Configure program from Sequence (programs 1 - 5 to execute sequentially).

Line 1 – Select current active program.

Line 2-6 – Step 1-5 - select sequence of the programs.

Line 7 – Exit - Back to main menu.

Program	Seq
Step 1	1
Step 2	5
Step 3	2
Step 4	4
Step 5	-
EXIT	

Manual mode

Manual control of plating, heating, output voltage, current limit and output voltage reverse

Line 1 – Manual mode and polarity symbol indication

Line 2 – Output voltage and polarity

Line 3 – Output current and plate ON/OFF state

Line 4 – Exit – Back to main menu

Note: Depending on configuration, when some of features are disabled, missing or not used (for example heating), the menus for related option will not display.

The symbol "▲" show current selected item.

SERVICE

- Line 1 – Manufacturer
- Line 2 – Device model
- Line 3 – Software revision
- Line 4 – Return back to service menu

Troubleshooting and Service

N	<i>Troubleshooting</i>	
1	The IPS won't start after turning on the "ON/OFF" switch	1. Check the power line voltage. 2. Check the connection of the AC cable to the IPS
2	Current indicator shows value "0.00A"	Check the connection to the load.
3	Can't reach the desired value of the current or voltage.	Inappropriate value of the load.

Service

NOTE: If for some reason, the unit fails – DO NOT ATTEMPT TO REPAIR IT BY YOURSELF- the unit should be serviced by the manufacturer or authorized service representative. Contact the distributor where you purchased the unit or contact Pepetools - immediately

Please have the following information about your unit available upon contacting:

Model Number and Revision - located on the label on the back of the unit

Unit's Serial Number - located on the label on the bottom of the unit

Line Voltage and frequency.

Detailed description of the problem encountered including – load and ambient temperature at the time of the failure.

Please provide a detailed description of the actions taken.

Approximate length of time device was in service.

If our technical staffs are unable to help you over the phone, we will issue a RA# number.

With this RA# and a brief description enclosed in your return package you can ship the unit postage prepaid back for repair.

Please remember to include in the package your contact information:

Name:

Return Address:

Telephone number(s)

Office:

Cell:

Email

