PS360

Ultra-compact laboratory power supply control module with an output of 360 W

1. GENERAL INFORMATION

Dear customer,

thank you for choosing our product. We have listed below what you need to bear in mind during commissioning. Should you encounter any unexpected problems during use, please do not hesitate to contact us.

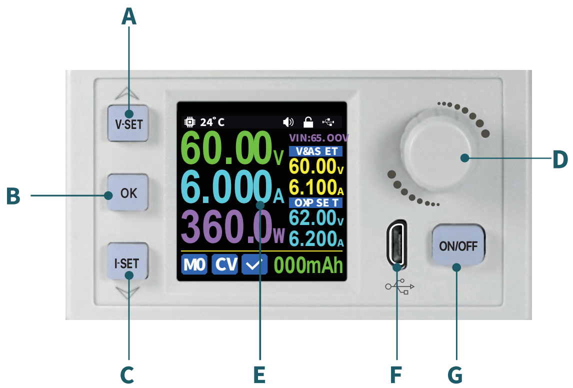
The JT-PS360-C is a laboratory power supply unit that can be used in various operating modes (e.g. constant current or constant voltage mode). The keypad and the push and rotary encoder make operating the power supply particularly convenient. In addition, up to nine settings can be saved and loaded using the keypad. The high-resolution 1.54" color display clearly shows all important information. The USB interface allows the device to be operated from a PC.

⚠ **CAUTION** : Do not connect any inductive loads to the device. If you still wish to connect inductive loads, you must protect the laboratory power supply unit from backflowing currents. Otherwise damage to the device cannot be ruled out.

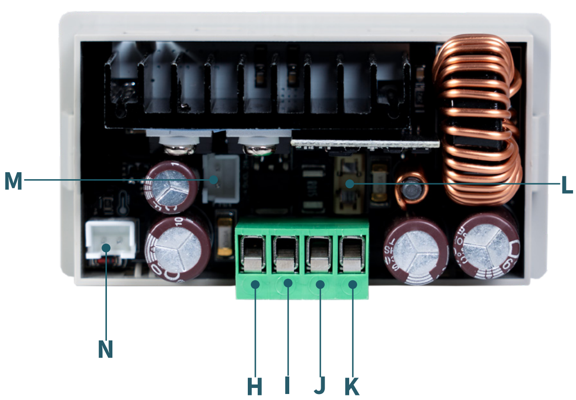
2. SPECIFICATIONS

Input voltage	12 - 68 V
Output voltage	0 - 60 V
Output current	0 - 6 A
Output power	0 - 360 W
Voltage resolution	0,01 V
Current resolution	0,001 A
Voltage accuracy	± (0.3% + 3 digits)
Current accuracy	± (0.5% + 5 digits)
Ripple	100 mV VPP
Response time in constant voltage mode	2 ms @ 0.1 A - 5 A
Load regulation in constant-voltage mode	± (0.1% + 2 digits)
Load regulation in constant current mode	± (0.1% + 3 digits)
Measuring range electrical charge	0 - 9999.99 Ah
Energy measuring range	0 - 9999.99 Wh
Display	1.54" (3.91 cm) LCD display
Overtemperature protection	from 90 °C

3. DEVICE OVERVIEW

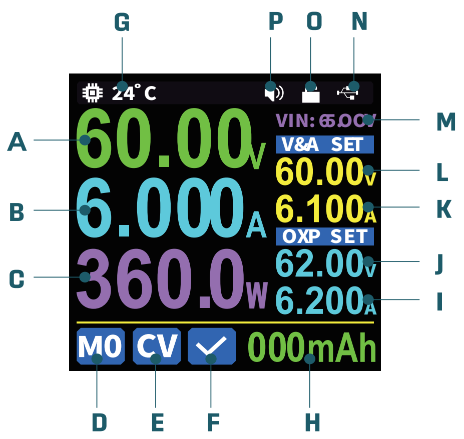


A: Voltage setting
B: Confirmation button
C: Current setting
D: Rotary encoder
E: Display
F: Micro-USB interface
G: Turn output on / off



H: Input +
I: Input -
J: Output -
K: Output +
L: Holder for spare fuse
M: Fan interface
N: Temperature sensor interface

4. SCREEN



A: Current output voltage
B: Current output current
C: Current output power
D: Current data group
E: Operating mode (constant voltage/current)
F: Protection status display
G: System temperature
H: Electrical charge battery
I: Overcurrent protection limit
J: Overvoltage protection limit
K: Preset output current
L: Preset output voltage
M: DC input voltage
N: Communication interface
O: Key lock
P: Key tones

5. OPERATION

5.1 SETTINGS OF THE OUTPUT VOLTAGE AND CURRENT

Press the **ON/OFF** button to switch the output on or off. When switched onthe button lights up green.

Press the **I-SET** button to set the output current value. Turn the rotary encoder to adjust the value. Press the rotary encoder to move the cursor. Press and hold the **I-SET** button to set the overcurrent protection value.

Press the **V-SET** button to set the output voltage value. Turn the rotary encoder to adjust the value. Press the rotary encoder to move the cursor. Press and hold the **V-SET** button to set the overvoltage protection value.

If the device is operated in constant current mode, the designation **CC** ("Constant current") appears in the operating mode display (see chapter 4 - Screen - E). In constant voltage mode, the designation **CV** ("Constant voltage") appears instead.

If the device is operating normally, a tick is displayed in the protection status display (see chapter 4 - Screen - F). If the current current value exceeds the set overcurrent protection value, the designation **OCP** ("Over current protection") is displayed instead. If the current voltage value exceeds the set overvoltage protection value, the designation **OVP** ("Over voltage protection") is displayed instead. The output is automatically switched off in these cases. if the system temperature exceeds a value of 90°C, the output is also switched off and the message **OTP** ("Over temperature protection") is displayed.

5.2 DATA GROUPS

Press and hold the **OK** button to save the current values (output voltage, output current, overvoltage protection, overcurrent protection) in the quick access memory. **M1** is selected as the default memory. Turn the **rotary encoder** to select an alternative memory location and press **OK** to confirm saving to the selected memory location.

Press and hold the **rotary encoder** to open the quick access. Turn the **encoder** to select the desired memory location and confirm with **OK** to load the data from the selected memory location.

5.3 SYSTEMSETTINGS

Press **OK** to open the system settings. Press the **I-SET** key to navigate down in the menu. Press **V-SET** to navigate upwards. The selected setting can be changed using the **rotary encoder**.

The following settings are available:
Language: Set the system language.
Mem. Output: in the off state, the current output state remains stored when loading a setting from the quick memory. In the on state, the output is automatically switched on when loading.
Boot Pow: Automatically sets the output state to Off or On when the device is started.
Logo: Displays the boot logo at device startup.
Sound: Sets the key sound to Off or On.
H. Light: Sets the backlight to a value between 0 and 5.
Upd. R.: Sets the output display update rate (voltage & current) to S(low), M(middle) and H(high).
Max Power: Limits the maximum power to a value between 0 and 380 watts.
Temperature: Changes the temperature unit between Celsius and Fahrenheit.
Rotate: Sets the display orientation to 0, 90, 180 or 270 degrees.
Interface: Selects the available interface between USB, TTL and RS485.
Baud Rate: Sets the current baud rate.
Address: Sets the address to a value between 001 and 255.

5.4 DISPLAY-SETTINGS

Press the **OK** key to open the system settings and press the **rotary encoder** to enter the settings for the display design. Here you can navigate with the **V-SET** and **I-SET** keys.

Digits Style: Selects the digits style between NORM, Seg1 and Seg2.
Custom Colors: Sets the preferred color for the respective value.

5.5 DATA STORAGE SETTINGS

Press the **OK key** to enter the system settings. Then press the **rotary encoder** twice to enter the data memory settings. Use the **V-SET** and **I-SET** keys to select the memory location that you want to edit. By pressing the **rotary encoder**, you can confirm the selected memory location to edit the desired settings. During editing, the **V-SET** and **I-SET** keys can be used to switch between the individual parameters.

5.6 SYSTEM INFORMATION

Press the **OK key** to enter the system settings. Then press the **rotary encoder** three times to call up the system information. Here, the model, the serial number and the installed firmware are available as information.

6. ADDITIONAL INFORMATION

Our information and take-back obligations under the German Electrical and Electronic Equipment Act (ElektroG)

Symbol on electrical and electronic equipment:
This crossed-out trash can means that electrical and electronic equipment does not belong in the household trash. You must hand in the old equipment at a collection point. Before dropping off, you must separate used batteries and accumulators that are not enclosed in the old device from the old device.

Return options:
As an end user, when you purchase a new device, you can hand in your old device (which essentially fulfills the same function as the new one purchased from us) for disposal free of charge. Small appliances with no external dimensions larger than 25 cm can be returned in household quantities regardless of the purchase of a new appliance.

Possibility of return at our company location during the opening hours:
SIMAC Electronics GmbH, Pascalstr. 8, D-47506 Neukirchen-Vluyn

Possibility of return in your area:
We will send you a parcel stamp with which you can return the device to us free of charge. To do this, please contact us by e-mail at service@joy-it.net or by phone.

Packaging information:
Please pack your old device securely for transport. If you do not have suitable packaging material or do not wish to use your own, please contact us and we will send you suitable packaging.

7. SUPPORT

We are also there for you after the purchase. If any questions remain or problems arise, we are also available to assist you via email, phone and ticket support system.

E-Mail: service@joy-it.net
Ticket system: https://support.joy-it.net
Phone: +49 (0)2845 9360 - 50

For more information, please visit our website:
www.joy-it.net

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