

# PAP802

## Adjustable Power Supply

### Output versions:

**0-18V, 0-50A**

**0-36V, 0-30A**

**0-54V, 0-20A**

**0-72V, 0-15A**

**0-100V, 0-10A**



### TECHNICAL DATA:

INPUT VOLTAGE:

50...255V (50...200 power limited)

INPUT CURRENT:

4,5A

POWER FACTOR:

Electrically corrected to 1

MAX. POWER OUTPUT:

800W (250W@110V)

MAX. OUTPUT RIPPLE:

30mV RMS  $f \geq 50\text{Hz}$  ( $U_{in} = 230\text{V}$ ,  $U_{out} = 24\text{V}$ ,  
 $I_{out} = I_{max}$ , Load = pure resistor, output version N)

EFFICIENCY:

> 86% ( $U_{in} = 230\text{V}$ ,  $U_{out} = 24\text{V}$ ,  $I_{out} = I_{max}$ )

SWITCHING FREQUENCY:

> 100kHz

ISOLATION:

3750V AC between INPUT/OUTPUT

3750V AC between INPUT/CASE

500V AC between OUTPUT/CASE

GREEPAGES:

8mm between INPUT/OUTPUT

8mm between INPUT/CASE

2mm between OUTPUT/CASE

COOLING:

Temperature dependent FAN

WEIGHT:

1.6kg with cables

DIMENSIONS LxWxH

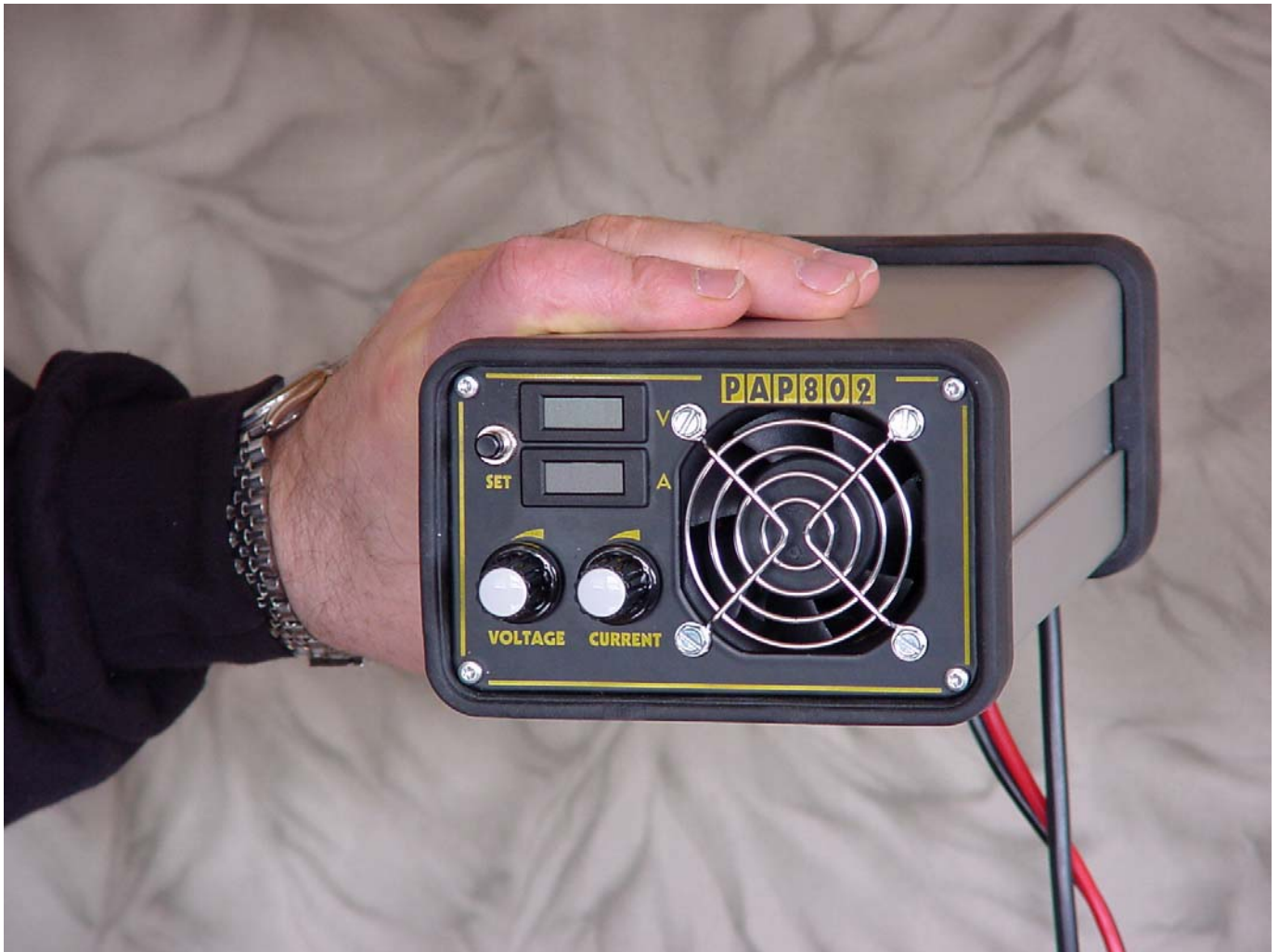
258 x 136 x 89 mm

PROTECTION CLASS:

Mechanical IP 21

Electrical II (with or without safety ground)

T output version electrical I class.



PAP802 is designed to fulfill demands for a small and lightweight high current adjustable power supply. It is provided with digital panel meters for voltage and current. Rubber fillets at both ends of enclosure make it withstand robust handling and prevent scratching and sliding.

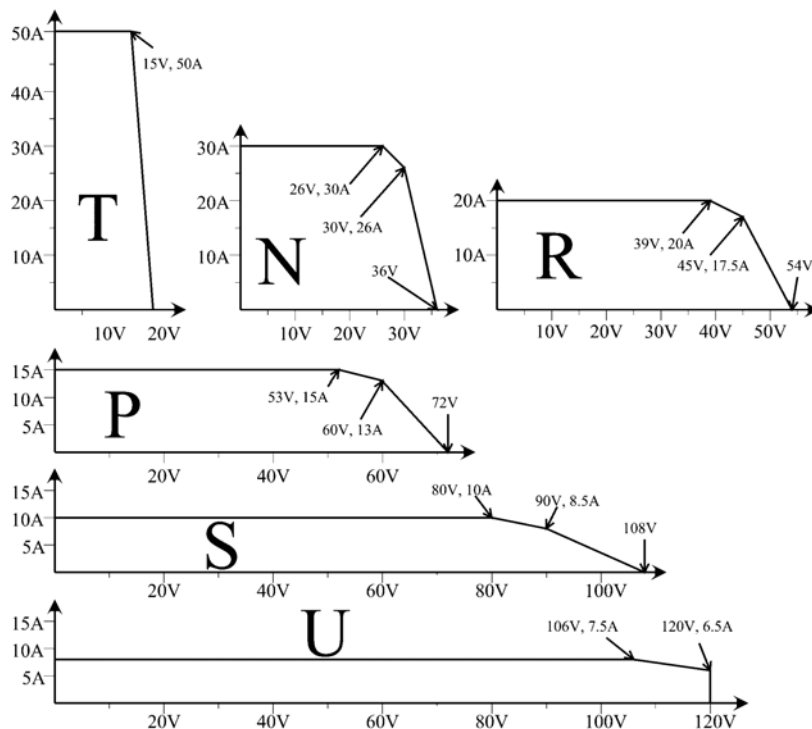
With multi turn potentiometers values of current and voltage can easily adjusted with high accuracy. The digital panel display for current and voltage shows the load's operational state at the time. If the Set button is pressed, displays tell the set values.

A microprocessor controls supply's wealth and takes care of the devices cooling fan assuring silent working at no load and light load conditions. Electrical fuse at the output protects power supply against short-circuits and wrong polarity.



PAP802 can be assembled with two different rear panels depending on needs. The possibilities are four millimeter banana socket or terminal block for 6mm<sup>2</sup> cable. Main switch with backlight is provided.

### OUTPUT CHARACTERISTIC CURVE



Different versions output characteristic curves. T-curve is 18 V, 50 A. N-curve is 36 V, 30 A. R-curve is 54 V, 20 A. P-curve is 72 V, 15 A, S-curve is 100 V, 10 A and U-curve is 120 V, 7.5 A.

PAP802 power supply's output is power limited. If input voltage is over 200V the maximum 800W can be reached. Maximum output power is the same between different versions.

## CONNECTING SUPPLIES PARALLEL:



PAP802 adjustable power supply together with PAP801.

If more current is needed adjustable PAP802 power supply can be parallel connected via digital bus to PAP801 power supply which equals PAP802 but is without potentiometers and displays. Then output current is doubled and the both supplies can still be adjusted through multi turn potentiometers. The voltage display shows the output value as before. If still more current is needed then more PAP801 power supplies can be connected in parallel so much that desired current value is reached. Supply's output terminals and communication bus terminals are isolated so that output's serial connections are allowed for more voltage.