

Stabilized a.c. power supplies with voltage and current regulable in local mode by Knobs and/or programmable in remote mode by optional interface.

**FEATURES**

- Mains connection 230 Vac +/- 10%, 50-60 Hz (others on request).
- Operating as Constant Voltage or Constant Current generator, with automatic changes and CV or CC MODE lights.
- V/A parameters variation is obtained by electronic rheostat, therefore the output waveform is with approximated sine curve.
- Stand-by and Out ON-OFF on rear connectors.
- CV green led (Constant Voltage), lit means that power supply is operating as constant voltage generator.
- CC red led (Constant Current), lit means that power supply is operating as constant current generator.
- OUT green led (stand-by ON – OFF), lit means that power supply output is on.
- OT yellow led (Over Temperature), lit means that overtemperature protection thermostates have been triggered.
- REM green led (REMOte control), lit means that power supply is been set for remote programming (optional interface).
- "VOLTAGE" and "CURRENT" centesimal knobs to set from zero to nominal value.
- "PRESET I" botton for setting current limitation.
- "STAND-BY" botton for stopping power supply output. Use rear connector for remote contact.
- "SENSE" botton for triggering compensation of the power cable voltage fall (max. 1V), only in ≤ 60 Volt models.
- "VOLT" and "AMPERE" display at 1999 points, tol. 0.1% ± 1 digit.

**SPECIFICATIONS**

LED:	CV, CC, OT, OUT, REM
DISPLAY:	1999 points, tol. 0.1% ± 1 digit voltage accuracy +/-1% current accuracy +/-5%
LINE REGULATION	≅ 0,1% for ±10% line change
LOAD REGULATION	≅ 0,5% for 100% load change
VOLTAGE-CURRENT RESOLUTION	16 bit with RS232-USB and 12 bit with GPIB
THERMAL STABILITY CV MODE	± 100 ppm for 8h after 30' warm-up
THERMAL STABILITY CC MODE	± 100 ppm for 8h after 30' warm-up
TEMPERATURE COEFFICIENT	0,01% / °C
OPERATING TEMP. RANGE	0 - 40 °C
LINE PROTECTION	With fuse and input filter
OVERLOAD PROTECTION	Programmed current limitation
THERMAL PROTECTION	Electronic thermostat
COOLING	Forced thermo-regulated fan cooling
OUTPUT	Floating and insulated 1000 Vac



Different voltage and current models on request.

Power supply identifier is composed with serie's name, identifier's interface if you need ("A" for analog interface, "R" for RS232, "U" for USB, "RU" for RS232+USB or "G" for GPIB interface) and Volt-Ampere.

Ex.: BVAC170A 230V0,8A is 230V 0,8A power supply with analog interface.

**Standard models**

SERIE	VOLT - AMPERE		DIM. mm	Kg
BVAC170	230V	0,8A	266x132x360	15
BVAC700	230V	1,5A	3U x 516	28
BVAC1500	230V	2A	4U x 516	35

## OPTIONS AND ACCESSORY

CODE	DESCRIPTION
<b>Line115</b> <b>Line 115/230</b>	<b>DIFFERENT MAINS</b> From 230Vac to 115 Vac. For 115/230Vac commutable mains.
<b>KIT3U</b>	<b>RACK KIT</b> Kit for mounting power supply in 19" 3U rack case, complete with handles and rear output.
<b>I/F-14</b>	<b>ANALOG REMOTE CONTROL</b> Insulated analog interface, for : <ul style="list-style-type: none"><li>- 0-10V voltage and current programming;</li><li>- resistors voltage and current programming;</li><li>- 0-10V voltage monitor signal;</li><li>- 0-10V current monitor signal;</li><li>- Constant Voltage, Constant Current and Over Temperature open collector signals.</li></ul> <b>RS232 / USB DIGITAL REMOTE CONTROL</b> This interface system includes installation of two boards: <ul style="list-style-type: none"><li>- MCUxAPS board complete with microcontroller and AD-DA converters;</li><li>- RS232-USB board (TTL / RS232 / USB adapter).</li></ul> Interface system features: <ul style="list-style-type: none"><li>- resolution at 16 bit +/- 3LSB;</li><li>- 1000Vdc galvanic insulation;</li><li>- baud rate settable 9,6 – 19,2 – 38,4 – 115,2 Kbps (USB only 115,2 Kbps);</li><li>- commands protocol made with 5 bytes ASCII, included CRC;</li><li>- allows voltage, current and reset set up;</li><li>- allows reading voltage monitor, current monitor, status byte and power supply identifier.</li></ul>
<b>I/F-RS232/A</b>	This code includes the installation of the MCUxAPS and RS232-USB boards with implementation of single RS232 interface.
<b>I/F-USB/A</b>	This code includes the installation of the MCUxAPS and RS232-USB boards with implementation of single USB interface.
<b>I/F-RS232/USB/A</b>	This code includes the installation of the MCUxAPS and RS232-USB boards with implementation of RS232+USB interfaces.
<b>I/F-GPIB</b>	<b>GPIB REMOTE CONTROL</b> Insulated GPIB (IEEE488) interface at 12 bit. Allows voltage and current set up and voltage monitor, current monitor and status reading. Interface's functions: SH1, AH1, T6, L4, SR1, DC1, E1. Voltage and current programming resolution: +/-0,03%. Programming accuracy: +/-0,01%. Reading resolution: +/-0,03%. Reading accuracy: +/-0,01%.

RS232, USB and GPIB software includes:

- use guide with features and communication protocol;
  - Control Panel application;
  - ActiveX application, using with Microsoft © and National Instruments (LabView ©).
- You can ask a free demo.