

D.C. LINEAR HIGH VOLTAGE SERIE POWER SUPPLIES (1000 ... 2000 V)

This high performance serie has been designed to satisfy constant voltage and constant current generator requests; so these power supplies have been realized with professional components and have been tested with severe procedures.

FEATURES

- Mains connection 230 Vac +/- 10%, 50-60 Hz (others on request).
- Reduced thermal dissipation in: HV serie with electronic switch on transformer, HVR serie with electronic preregulation.
- 10 rounds knobs for Voltage and Current regulation, from zero to nominal value.
- Operating as Constant Voltage or Constant Current generator with automatic change.
- Enable / Disable output power supplies with knobs or remote contact on rear panel connector.
- 2 strings back-light LCD (20 digits 6x9,66mm size) that shows:
 - ✓ Device identification and technicals infos, etc.
 - ✓ Voltage-Current setpoint , actual values, Watt power value and internal temperature.
 - ✓ Status device: "Disable", "Enable CV", "Enable CC", "Unregul", "Over Temperature", "Over Volt", "Over Current", etc.
 - ✓ Enabled special functions symbols.
- Front panel keys functions:

✓ ON (NEXT)	ON	- Enable output power supply (pressed for 5 s for keys lock).
	NEXT	- Go to next Menu line (if it is in Menu).
✓ OFF (EXIT)	OFF	- Disable output power supply (pressed for 5 s for keys unlock).
	EXIT	- Exit from Menu (if it is in Menu).
✓ MENU (CHANGE)	MENU	- Enters in Menu.
	CHANGE	- Enable or Disable options.

TECHNICAL SPECIFICATIONS

LINE REGULATION:	~ 0,001% for ±10% line change.
LOAD REGULATION:	~ 0,01% for 100% load change.
RIPPLE CV MODE:	~ 0,002% Vrms of range value and 0,003% for HVR models.
RIPPLE CC MODE:	~ 0,005% Arms of range value and 0,007% for HVR models.
VOLTAGE-CURRENT RESOLUTION:	16 bit with RS232-USB.
TRANSIENTS RESPONSE TIME:	~ 50uS within 1% Vout for 20-80% load change.
SLEW RATE:	~ 2-10 mSec.
THERMAL STABILITY CV MODE:	± 50 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:	Thermoregulated fan cooling ventilation.
OUTPUT:	Positive pole connects to ground (chassis).



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 or "RU" for RS232+USB interface) and Volt-Ampere.

Ex.: HV340A 1500V120mA is 1500V 120mA power supply with analog interface.

Standard models

SERIE	VOLT - AMPERE			(L x H x P) mm	Kg	
Bench case - Optional kit for rack 19" 3U case						
HV140	1000V 40mA	1500V 30mA	-	Mains connection 230Vca ±10% 50-60Hz	266x132x250	8
HV170	1000V 80mA	1500V 70mA	2000V 40mA		411x132x360	10
HV340	1000V 160mA	1500V 120mA	2000V 70mA		411x132x360	14
HV440	1000V 240mA	1500V 170mA	2000V 100mA		411x132x360	16

SERIE	VOLT - AMPERE			(L x H x P) mm	Kg	
Rack 19" case						
HVR700	1000V 400mA	1500V 230mA	2000V 150mA	Mains connection 230Vca ±10% 50-60Hz	3U prof. 516	28
HVR1500	1000V 800mA	1500V 330mA	2000V 200mA		4U prof. 516	36
HVR3000	1000V 1,5A	1500V 650mA	2000V 400mA		6U prof. 516	48
HVR4000	1000V 2A	1500V 850mA	2000V 600mA		8U prof. 516	58

OPTIONS AND ACCESSORY**CODE DESCRIPTION****ALARMS**

OV-Relè 3V-Vmax programmable overvoltage alarm, with relè and led signallig.
OC-Relè programmable overcurrent alarm by PRESET, with relè and led signallig.

CROWBAR OVERVOLTAGE

OV-12A Regulable 5V-Vmax with led signallig.
 For maximum 12 Ampere power supplies.

DIFFERENT MAINS

Line115 From 230Vac to 115Vac.
Line400 From 400Vac to 230Vac.

RACK KIT

KIT3U Kit for mounting power supply in 19" 3U rack case, complete with handles and rear output.

ANALOG REMOTE CONTROL

I/F-14 Insulated analog interface, for :
 - 0-10V voltage and current programming;
 - 0-10V voltage and current monitor signals;
 - Constant Voltage, Constant Current open collector signals.

DIGITAL REMOTE CONTROL

I/F-RS232+USB Insulated interface system features:
 - allows voltage, current and reset set up;
 - allows reading identifier, voltage, current and status monitor.
 - resolution at 16 bit +/- 3LSB;
 - baud rate settable 9,6 – 19,2 – 38,4 – 115,2 Kbps (USB only 115,2 Kbps);
 - commands protocol made with 5 bytes ASCII, included CRC;

RS232+USB 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.