

D.C. LINEAR MEDIUM VOLTAGE SERIE POWER SUPPLIES (400 ... 800 V)

Medium voltage power supplies with linear regulation (by mosfet) in AT models and double regulation (by thyristors and mosfet) in ATR and ATC models.

FEATURES

- Mains connection 230 Vac +/- 10%, 50-60 Hz (others on request).
- Reduced thermal dissipation in: AT serie with electronic switch on transformer, ATR and ATC 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.
 - ✓ 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, +0,5 mV for mod. ATR and +1 mV for mod. ATC.
RIPPLE CC MODE:	~ 0,005% Arms of range value, +1 mA for mod. ATR and +2 mA for mod. ATC.
VOLTAGE-CURRENT RESOLUTION:	16 bit with RS232+USB
TRANSIENTS RESPONSE TIME:	~ 50uS within 1% Vout for 20-80% load change
SLEW RATE:	~ 2-10 mSes
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 TEMPER. RANGE:	0 - 40 °C
LINE PROTECTION:	With fuse and input filter
OVERLOAD PROTECTION:	Programmed current limitation
THERMAL PROTECTION:	Thermostat
COOLING:	Forced thermoregulated fan cooling
OUTPUT:	Floating and insulated 1000 Vdc



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.: AT170A 400V0.2A is 400V 0.2A power supply with analog interface.

Standard models

SERIE	VOLT - AMPERE						(L x H x P) mm	Kg
Bench case - 19" 3U rack mounting optional kit								
AT140	400V 100mA	500V 75mA	600V 60mA	700V 50mA	800V 40mA	Mains connection 230Vca ±10% 50-60Hz	266x132x250	8
AT170	400V 200mA	500V 150mA	600V 120mA	700V 100mA	800V 80mA		266x132x360	10
AT340	400V 400mA	500V 300mA	600V 240mA	700V 200mA	800V 160mA		411x132x360	14
AT440	400V 600mA	500V 450mA	600V 360mA	700V 300mA	800V 240mA		411x132x360	16

SERIE	VOLT - AMPERE						(L x H x P) mm	Kg
19" rack								
ATR700	400V 1A	500V 750mA	600V 600mA	700V 500mA	800V 400mA	Mains connection 230Vca±10%50-60Hz	3U prof. 516	28
ATR1500	400V 2A	500V 1,5A	600V 1,2A	700V 1A	800V 800mA		4U prof. 516	36
ATR3000	400V 4A	500V 3A	600V 2,4A	700V 2A	800V 1,6A	Mains connection 400Vca±10%50-60Hz	6U prof. 516	48
ATR4000	400V 6A	500V 4,5A	600V 3,6A	700V 3A	800V 2,4A		8U prof. 516	58

SERIE	VOLT - AMPERE						(L x H x P) mm	Kg
Cabinet on wheels								
ATC5K	400V 10A	500V 8A	600V 6,5A	700V 5,5A	800V 5A	Mains connection three-phase 400Vca ±10% 50Hz	810x970x600	100
ATC8K	400V 15A	500V 12A	600V 10A	700V 8,5A	800V 7,5A		810x1150x600	130
ATC12K	400V 20A	500V 16A	600V 13A	700V 11A	800V 10A		810x1320x600	160
ATC16K	400V 25A	500V 20A	600V 16A	700V 14A	800V 12,5A		810x1500x600	200

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

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

CROWBAR OVERVOLTAGE

Regulable 5V-Vmax with led signalling.
OV-12A For maximum 12 Ampere power supplies.
OV-22A For maximum 22 Ampere power supplies.
OV-45A For maximum 45 Ampere power supplies.

DIFFERENT MAINS

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

RACK KIT

KIT3U 19" 3U rack mounting Kit, with handles and rear outputs.

ANALOG REMOTE CONTROL

I/F-14 Insulated analog interface:
- 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:
- Voltage and Current set up;
- Identifier, Voltage, Current and Status monitor reading.
- 16 bit +/- 3LSB resolution;
- 9,6 – 19,2 – 38,4 – 115,2 Kbps (USB only 115,2 Kbps) settable baud rate;
- 5 bytes ASCII, included CRC, protocol commands;

RS232+USB software includes:

- Features and communication protocol user guide;
- Control Panel application;
- ActiveX application, using with Microsoft © and National Instruments (LabView ©).

Free demo on request.