

D.C. POWER SUPPLIES SERIE, HIGHT-POWER WITH CHASSIS ON WHEELS  
AND THYRISTORS REGULATION

This is the new power supply serie with digital panel and MCU control. Front panel includes function keys, encoder for data set up and LCD. These power supplies are designed to operate in heavy working conditions.

**FEATURES**

- Mains connection 400 Vac three-phase +/- 10%, 50 Hz.
- Voltage and Current regulable from zero to nominal value.
- Operating as Constant Voltage or Constant Current precision generator with automatic change and LCD display.
- **Enable / Disable output** on rear connectors.
- Remote sense for compensation of the power cable voltage fall (max. 1V), only in  $\leq 100$  Volt models.
- 2 strings back-light LCD (20 digits 6x9,66mm size) that shows: identifier, voltage and current setpoint, voltage and current limitations, overvoltage, overcurrent, overtemperature, voltage mode, current mode, power mode, out on/off, remote sense, etc.
- Control panel with encoder for setting up parameters and following functions keys:
  - ✓ "START" and "STOP" keys for power supply switching on / off;
  - ✓ "LOCK Enc." key for enabling/disabling encoder, so parameters can not be accidentally modified;
  - ✓ "Out ON-OFF" key for enabling/disabling power supply output;
  - ✓ "Set V - A" key for setting voltage and current;
  - ✓ "Enc. V-mV or A-mA" key for selecting voltage or current fine or gross resolution;
  - ✓ "Enter" key to confirm commands;
  - ✓ "Stand-by" for disable power supply output;
  - ✓ "Menu" key for Menu set up with "Actual settings" >> "Protecting limits" >> "Overvolt-Overcurrent" >> "Interface system" >> "RS232 baud rate" >> "Remote sense" >> "Encoder locking" >> "Power display" >> "Technicals info".

**TECHNICAL SPECIFICATIONS**

<b>LINE REGULATION:</b>	~ 0,5% for $\pm 10\%$ line change.
<b>LOAD REGULATION:</b>	~ 0,5% for $\pm 100\%$ line change
<b>RIPPLE CV-CC MODE:</b>	~ 1% Vrms-Arms of range value.
<b>VOLTAGE-CURRENT RESOLUTION:</b>	16 bit with RS232+USB.
<b>TRANSIENTS RESPONSE TIME:</b>	~ 100 mS within 5% Vout, for 20-80% load change.
<b>RISE TIME:</b>	~ 50-200 mS depending on models.
<b>THERMAL STABILITY CV-CC MODE:</b>	$\pm 50-100$ ppm (CV-CC) for 8h after 30' warm-up.
<b>TEMPERATURE COEFFICIENT:</b>	$\pm 0,01\%$ / °C.
<b>OPERATING TEMPER. RANGE:</b>	0 - 40 °C.
<b>LINE PROTECTION:</b>	With fuse and input filter.
<b>OVERLOAD PROTECTION:</b>	Programmed current limitation.
<b>THERMAL PROTECTION:</b>	With thermostat.
<b>COOLING:</b>	Fan cooling ventilation.
<b>OUTPUT:</b>	Floating and insulated 500 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.: DPST14KR 20V600A is 20V 600A power supply with digital RS232 interface.

## Standard models

SERIE	VOLT - AMPERE									(L x P x H) mm	Kg
	15V 400A	20V 300A	30V 200A	40V 150A	60V 100A	100V 60A	150V 40A	200V 30A	300V 20A		
DPST7K	15V 400A	20V 300A	30V 200A	40V 150A	60V 100A	100V 60A	150V 40A	200V 30A	300V 20A	810x600x970	200
DPST10K	15V 600A	20V 450A	30V 300A	40V 225A	60V 150A	100V 90A	150V 60A	200V 45A	300V 30A	810x600x970	220
DPST14K	15V 800A	20V 600A	30V 400A	40V 300A	60V 200A	100V 120A	150V 80A	200V 60A	300V 40A	810x600x970	240
DPST17K	15V 1000A	20V 750A	30V 500A	40V 375A	60V 250A	100V 150A	150V 100A	200V 75A	300V 50A	810x600x1150	270
DPST20K	15V 1200A	20V 900A	30V 600A	40V 450A	60V 300A	100V 180A	150V 120A	200V 90A	300V 60A	810x600x1150	300
DPST25K	15V 1600A	20V 1200A	30V 800A	40V 600A	60V 400A	100V 240A	150V 160A	200V 120A	300V 80A	810x600x1320	350
DPST30K	15V 2000A	20V 1500A	30V 1000A	40V 750A	60V 500A	100V 300A	150V 200A	200V 150A	300V 100A	810x600x1320	400
DPST40K	15V 2400A	20V 1800A	30V 1200A	40V 900A	60V 600A	100V 360A	150V 240A	200V 180A	300V 120A	810x600x1500	450
DPST50K	15V 2800A	20V 2100A	30V 1400A	40V 1050A	60V 700A	100V 420A	150V 280A	200V 210A	300V 140A	810x600x1500	500
DPST60K	15V 3000A	20V 2400A	30V 1700A	40V 1250A	60V 850A	100V 500A	150V 340A	200V 250A	300V 170A	810x600x1850	550
DPST70K	-	20V 2700A	30V 2000A	40V 1500A	60V 1000A	100V 600A	150V 400A	200V 300A	300V 200A	810x600x1850	600
DPST85K	-	20V 3000A	30V 2250A	40V 1750A	60V 1250A	100V 750A	150V 500A	200V 375A	300V 250A	810x600x2200	650
DPST100K	-	-	30V 2500A	40V 2000A	60V 1500A	100V 900A	150V 600A	200V 450A	300V 300A	810x600x2200	700

## OPTIONS AND ACCESSORY

### CODE DESCRIPTION

#### ALARMS

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

#### CROWBAR OVERVOLTAGE

Regulable 5V-Vmax with led signallig.

**OV-65A** For maximum 65 Ampere power supplies.  
**OV-100A** For maximum 100 Ampere power supplies.  
**OV-200A** For maximum 200 Ampere power supplies.  
**OV-300A** For maximum 300 Ampere power supplies.  
**OV-500A** For maximum 500 Ampere power supplies.

#### DIFFERENT MAINS

**Line230** From 400Vac to 230Vac three-phase.

#### 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:  
 - 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.**