



Voltage, current and over-voltage protection (OVP) continuously adjustable from 0 to full output via

- Front panel controls (ten turn)
- Remote programming (0-10V, 0-12V OVP)
- RS232 (incl. by default)
- Resistance programming
- Plug in IEEE-488-Interface (optional)

Voltage (V _{DC})	0-20	0-30	0-40	0-60	0-160
Current (A _{DC})	0-50	0-40	0-30	0-20	0-8

Specifications

• Constant Voltage Mode (CV)

Voltage output range: ≤ 100mV to full output voltage, 10 turn potentiometer

Line regulation: 0,001% (± 10% line change)

Load regulation: 0,001% (100% load change)

Regulation time: 50µs (for load change from 50% to 100%) within 15mV; (30µs within 50mV)

Ripple: ≤ 1mV_{rms}, V_{PP} < 5mV

Temperature coefficient: 0,005% V_{max} / °C (0-40°C)

Stability: 0,05% V_{max} or 1mV within 8 hours, at const. line, const. temperature and const. load

Overvoltage protection: 0-120% V_{max}, continuously adjustable

Remote sensing: Max. line drop 0,5V / output line

• Constant Current Mode (CC)

Current output range: ≤ 100mA to full output current, 10 turn potentiometer

Line regulation: 0,05% (± 10% line change)

Load regulation: 0,1% (100% load change)

Temperature coefficient: 0,03% C_{max} / °C (0-40°C)

Stability: 0,05% C_{max} within 8 hours, at const. line, const. temperature and const. load

Output: Insulated, floating up to 300V_{DC}
(+S reference point for external V/C-controls)

Input Voltage: 230 V_{AC} ± 10%, 47...65 Hz

Input Current: 13 A max. at 230 V, soft start

Features

- **Precision series-pass regulation with Thyristor-preregulation**
- For normal laboratory use as well as complex system applications
- Fast regulation, low ripple, high precision
- Constant Voltage Mode / Constant Current Mode with automatic crossover
- Delayed current limiting (enables 50% Overload for up to 500 ms)
- Monitor for voltage and current (0-10V for 0 to full output)
- Remote sensing
- Soft start
- Series or parallel operation, Master-Slave operation
- Short circuit protection, Transient protection
- Thermal protection, derating
- Compact 19" Rack, 3 U
- **Please Call for a customer requested solutions and other current/voltage-configuration**

Other details

Storage temperature: -20...+ 70°C

Operating temperature: 0...+ 40°C

Cooling: fan 2-steps, temperature controlled speed

Instruments: Analog meters for voltage and current (accuracy 2,5%)

Mechanical

Dimensions: H x W x D 133 (3U) x 443 x 514 mm without front panel components, but with connectors on back panel

Weight: approx. 40kg

Options

- Opt. 07** 115V_{AC} Input voltage
- Opt. 17** Special Input voltage
- Opt. 34** IEEE-488 Listener-Talker-Interface
- Opt. 51** Analog meters

Back view

