



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)
- Resistance programming
- RS232 (incl. by default)
- Plug in IEEE-488-Interface (optional)

Call us for a customer requested solutions like other current/voltage configurations

Specifications

• Constant Voltage Mode (CV)

Voltage output range: $\leq 100\text{mV}$ to full output voltage, 10 turn potentiometer

Line regulation: 0,001% ($\pm 10\%$ line change)

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

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

Ripple: $\leq 1\text{mV}_{\text{rms}}$, $V_{\text{PP}} < 5\text{mV}$

Temperature coefficient: 0,005% $V_{\text{max}} / ^\circ\text{C}$ (0-40 $^\circ\text{C}$)

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: $\leq 100\text{mA}$ to full output current, 10 turn potentiometer

Line regulation: 0,05% ($\pm 10\%$ line change)

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

Temperature coefficient: 0,03% $C_{\text{max}} / ^\circ\text{C}$ (0-40 $^\circ\text{C}$)

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} $\pm 10\%$, 47...65 Hz

Input Current: 19 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, 4 U

Voltage (V _{DC})	0-20	0-30	0-40	0-60	0-160
Current (A _{DC})	0-70	0-65	0-50	0-30	0-13

Other details

Storage temperature: -20...+ 70 $^\circ\text{C}$

Operating temperature: 0...+ 40 $^\circ\text{C}$

Cooling: fan 2-steps, temperature controlled speed

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

Mechanical

Dimensions: H x W x D 178 (4U) x 443 x 514 mm without front panel components, but with connectors on back panel

Weight: approx. 53kg

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

