



HERCULES-Autoranging power supplies are modifications of standard devices. The range crossing goes continuously. Accuracy of adjustment and monitoring correspond to devices with nominal voltage V_2 and with nominal current C_1 . Voltage relations of $V_2:V_1$ or current relations of $C_1:C_2$ are possible until 1:2,5 Series or parallel operation, master slave operation is possible.

. Call for other configurations, like other U/I-combinations

V1-Out (V_{DC})	20	30	50	100	200	400
C1-Out (A_{DC})	100	60	40	20	10	5
V2-Out (V_{DC})	40	60	100	200	400	800
C2-Out (A_{DC})	50	30	20	10	5	2,5

At 800V-devices no serial operation

Specifications

• Constant Voltage Mode (CV)

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

Line regulation: 0,01% ($\pm 10\%$ line change)

Load regulation: 0,025%

Regulation time: 20ms load change from 5% to 100% (100mV), 20ms load change from 100% to 5% (100mV), 10ms load change 30% (50mV)

Ripple: $\leq 30mV_{rms}$, $150mV_{PP}$

Temperature coefficient: 0,01% $V_{max.}/^{\circ}C$ (0-50°C)

Remote sensing: Max. line drop 1V or 1% of $V_{max.}$ / output line

• Constant Current Mode (CC)

Current output range: $\leq 100mA$ to full output current, 10 turn potentiometer

Line regulation: 0,01% ($\pm 10\%$ line change)

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

Temperature coefficient: 0,01% $C_{max.}/^{\circ}C$ (0-50°C)

Output:

Floating, insulated up to $500V_{DC}$ at $V_{max.} \leq 350V$, above insulated up to $1,5V_{max.}$

Input voltage:

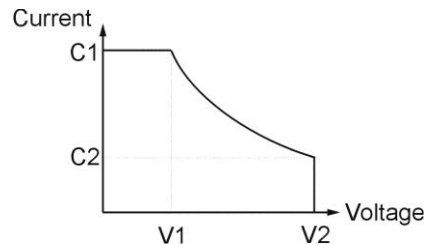
$230V_{AC} \pm 10\%$, 47..65Hz

$115V_{AC} \pm 10\%$ / 3 phase (Option)

Input current: appr. 18A at 230V and full load soft start

Features

- Power output in according to nominal values
- High power switch mode AC to DC power supplies
- Constant Current Mode / Constant Voltage Mode with automatic crossover
- Voltage, current, OVP (over-voltage protection) continuously adjustable from nearly 0 to maximum via
 - Front panel controls (ten turn)
 - Remote programming (0-10V, 0-12V OVP)
 - Plug in IEEE-488-Interface (optional)
- Monitor for voltage and current (0-10V) for 0 to full output
- Remote sensing
- RS232 incl. by default
- Short circuit protection, transient protection
- Remote ON/OFF (standby)
- Thermal protection, derating
- Compact 19" rack, 3 U



Other details

Remote: Remote ON/OFF-control input 5-15V

Programming: 0-10V for voltage and current, 0-12V OVP, resistance programming possible

Storage temperature: -20..+70°C

Operating temperature: 0..+50°C, without derating

Metering: Analog meters for voltage and current, meters accuracy $\pm 2,5\%$

Cooling: fan 2-steps, temperature controlled speed

Mechanical: H x W x D: 132 x 443 x 480 (mm), without frontpanel components, with connectors an back panel

Wight: appr. 32kg

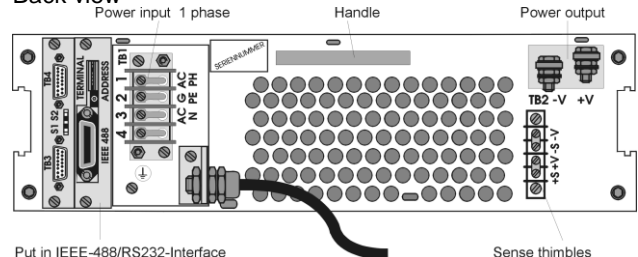
Options

Opt. 07 3 x 200V_{AC} Input voltage

Opt. 34 IEEE-488 Listener-Talker-Interface

Opt. 51 Analog meters

Back view



Put in IEEE-488/RS232-Interface

Sense thimbles