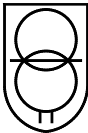




U - Series UCS 50 CONSTANT CURRENT SOURCE

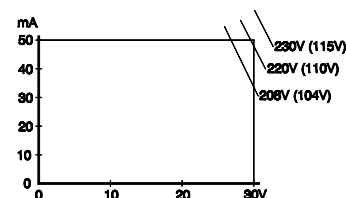
Models	Voltage range	Current range
UCS 50 (current source)	30 V	0 - 50 mA



- Input : 230 / 115 V AC 48 - 62 Hz
 - Transformer : Split bobbin, potted, safety transformer
According to, VDE0551, EN60742
 - Test voltage
 - Input / Output : 4000 Vrms (output case shorted)
 - Input / Case : 4000 Vrms (output case shorted)
 - Output / Case : 500 VDC
 - Input to output
 - Leakage current : Typical 5 μ A
 - Coupling capacitance : Less than 60 pF
 - Insulation resistance : 1000 MOhm
 - Attenuation input spikes : Better than 100 dB
 - Current adjustment : 0-50 mA
: By a 20-turn screwdriver adjustment
: By external potmeter 10 k Ω
: By 0-5 V analog programming
 - Programming input : 0-5 V, full scale error $\pm$ 0.2%, offset error $\leq$ 20 μ A
: Input impedance 500 kOhm.
 - Current regulation
 - Load 600 - 0 Ohm : 3 μ A
 - Line $\pm$ 10 % : 3 μ A
- 



- Ripple + noise : 30 μ A pp, measured across 600 Ohm // 0.1 μ F (BW=20 Mhz)
- Temperature coeff. : 0.005% per $^{\circ}$ C
- Stability : 0.01% per 8 hrs after 20 min warm up.
- Output impedance
 - DC : 10 MOhm
 - 1 kHz : 33 kOhm
 - 10 kHz : 3.3 kOhm
 - 100 kHz : 0.33 kOhm
- Recovery time : 10 μ s
 - 600 - 60 Ohm
 - Open voltage limit : 33 V +/- 5%
 - Ambient temperature : -20 to +50 $^{\circ}$ C
- Accessories : P500 Eurocard for 2 units
Front panel F10-3 for P500.
For more details see also U-series



*Derating of max.
voltage at low
line voltage*

Dimensions and Weight

- | | | | |
|----------|---------|----------|----------|
| • Height | : 35 mm | • Weight | : 0.4 kg |
| • Width | : 58 mm | • Depth | : 94 mm |

