

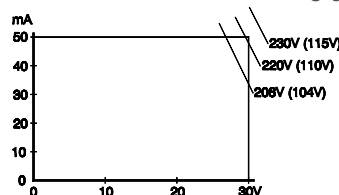


**U - Series UCS 50 CONSTANT CURRENT SOURCE**

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



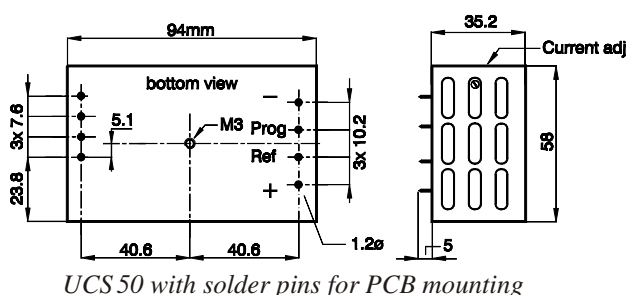
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| <ul style="list-style-type: none"> <li>• Input : 230 / 115 V AC 48 - 62 Hz</li> <li>• Transformer : Split bobbin, potted, safety transformer According to, VDE0551, EN60742</li> <li>• Test voltage                     <ul style="list-style-type: none"> <li>Input / Output : 4000 Vrms (output case shorted)</li> <li>Input / Case : 4000 Vrms (output case shorted)</li> <li>Output / Case : 500 VDC</li> </ul> </li> <li>• Input to output                     <ul style="list-style-type: none"> <li>Leakage current : Typical 5 <math>\mu</math>A</li> <li>Coupling capacitance : Less than 60 pF</li> <li>Insulation resistance : 1000 MOhm</li> <li>Attenuation input spikes : Better than 100 dB</li> </ul> </li> <li>• Current adjustment : 0-50 mA                     <ul style="list-style-type: none"> <li>: By a 20-turn screwdriver adjustment</li> <li>: By external potmeter 10 k<math>\Omega</math></li> <li>: By 0-5 V analog programming</li> </ul> </li> <li>• Programming input : 0-5 V, full scale error <math>\pm</math> 0.2%, offset error <math>\leq</math> 20 <math>\mu</math>A                     <ul style="list-style-type: none"> <li>: Input impedance 500 kOhm.</li> </ul> </li> <li>• Current regulation                     <ul style="list-style-type: none"> <li>Load 600 - 0 Ohm : 3 <math>\mu</math>A</li> <li>Line <math>\pm</math> 10 % : 3 <math>\mu</math>A</li> </ul> </li> </ul> |  | <ul style="list-style-type: none"> <li>• Ripple + noise : 30 <math>\mu</math>A pp, measured across 600 Ohm // 0.1 <math>\mu</math>F</li> <li>• Temperature coeff. : 0.005% per <math>^{\circ}</math>C</li> <li>• Stability : 0.01% per 8 hrs after 20 min warm up.</li> <li>• Output impedance                     <ul style="list-style-type: none"> <li>DC : 10 MOhm</li> <li>1 kHz : 33 kOhm</li> <li>10 kHz : 3.3 kOhm</li> <li>100 kHz : 0.33 kOhm</li> </ul> </li> <li>• Recovery time                     <ul style="list-style-type: none"> <li>600 - 60 Ohm : 10 <math>\mu</math>s</li> <li>Open voltage limit : 33 V <math>\pm</math> 5%</li> <li>Ambient temperature : -20 to +50 <math>^{\circ}</math>C</li> </ul> </li> <li>• Accessories : P500 Eurocard for 2 units Front panel F10-3 for P500. For more details see also U-series</li> </ul> |
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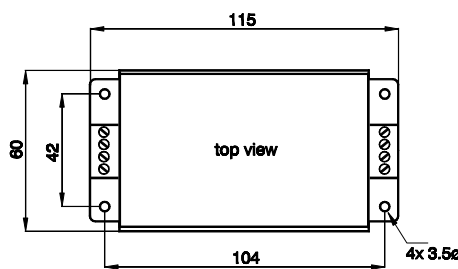
*Derating of max. voltage at low line voltage*

**Dimensions and Weight**

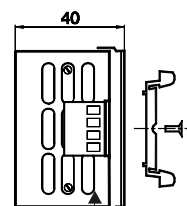
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|------------------|-------------------|
| • Height : 35 mm | • Weight : 0.4 kg |
| • Width : 58 mm  | • Depth : 94 mm   |



UCS 50 with solder pins for PCB mounting



UCS 50B with screw terminals for rail mounting



Clamp for rail mounting