

- 1 AC PSU
- 2 Status LEDs

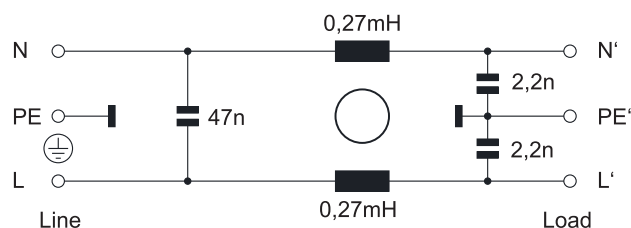
- 3 IEC 320-C14 AC inlet with mains filter
- 4 Connector MOLEX HCS-125

Introduction:

The Schrott 21596-370 is an AC power supply with wide range AC input and 48 VDC output. The power supply can be mounted in the upper RTM section of the Schrott 11596-09x Shelf family and occupies the upper RTM slot. The lower RTM slot can still be used.

The power input is provided by an AC mains/line module with IEC 320-C14 connector and integrated mains/line filter. The power output is via a cable with MOLEX HCS-125 connector.

Figure 1: AC mains/line filter schematic



SPECIFICATIONS	
Input Voltage Range	90-264 V _{AC} , 47 Hz - 63 Hz
Input Current (maximum)	7.0 A @ 90 V _{AC} , 5.8 A @ 180 V _{AC}
Inrush Current	20 A max. peak (per ETS 300 132-1)
Input Fuse	1 fuse 10 A in line
Power Factor and Harmonics	0.99 typical complies with EN61000-3-2 Class A
Efficiency	90% typical
Output Power	Constant Power: 850 W (230 V _{AC} input), 500 W (110 V _{AC} input)
Output Current	15.7 A @ 54 V (230 V _{AC} input); 9.3 A @ 54 V (110 V _{AC} input)
Output Voltage Range	-42 V _{DC} to -58 V _{DC}
Voltage Regulation	± 0.5% load effect; ± 0.1% line effect
Output Ripple and Noise	20 kHz bandwidth per ETS300132-2, CCITT 0.41, Wide band noise: max. 2 mVrms psophometric; 10 mVrms non-weighted
Transient Response	Overshoot 1 V max. Recovery time: 4 ms max. @ 50% load step and di/dt<0,5 A/μs
Start-up Time	1.5 s typical (max. 2.5 s)
Hold-up Time	10 ms at full load
Current Limit Protection	20.3 A
Short Circuit Current	25 A max.
Over Voltage Protection	-59.5 V _{DC} Latching
Over Temperature Protection	Non latching; protection active when internal temperature is too high
Operating Temperature	-20 °C to +70 °C / (-4 °F to +158 °F). Power derating above 55 °C/131 °F 2% per °C ; starts operation at -40 °C / (-40 °F)
EMI	Class B (FCC and CISPR compliant) - EN55022 level B, CE marked, Telecordia GR-63-CORE
LED Indicators	DC OK: green; AC OK: green; TEMP OK: green;
Cooling	Fan cooled right to left; variable speed
Weight	approx. 1.9 kg

Figure 2: Mechanical Dimensions