

Input:

Nominal input voltage: 115 or 230 V AC
 Input voltage range, selection by jumper on the PC-board: 95 ... 132 V (X3 ON) , 185 ... 265 VAC (X4 ON, default)
 Nominal frequency: 50/60 Hz
 Current: 0,77 A 115V / 0,44 A 230V
 Inrush current: < 3,0 A
 Connector X1: 3 x 2,5 mm²
 Max. external fuse: 16 A
 Efficiency: 82%
 Power factor: 0,46 typical

Output:

Output voltage: 24 V +/- 0.5 V
 Ripple: < 100 mV pp (< 200 kHz)
 Nominal current: 1,7 A (50°C)
 Hold up time at nominal conditions: > 40ms (230 VAC, 1,7 A load)
 > 20ms (115 VAC, 1,7 A load)
 > 200us after falling edge of the PWR-fail signal
 Output with 3 parallel-connected 390 ohm load resistors resistor, JST B3P-VH
 Output 24 VDC, JST B3P-VH

Regulation dyn. 0 -> 100 -> 5 % x I nom
 <1 ms bei 5 % change

Output shortcircuit and overload protected
 By overload the output voltage starts to decrease, typically. > 1,9 A
 With heavy overload the output current starts to pulsate, typically > 2,9 A

Power fail output:

Combined signal from the input side capacitor voltage and the 24 VDC-
 output voltage monitoring circuits.
 Input side monitoring: Minimum capacitor voltage for 200us holdup time
 Output side monitoring: Voltage treshold 22,0 ... 23,0 V
 Status indicator with green LED: When lit, PWR FAIL signal is high, not activated
 Power fail signal: Active low with passive pull-down resistor 3,3 kohm. Signal level 24 VDC output,
 max. external load 3,3 kohm (7,3 mA).
 Connector X2 -4: Power fail signal output, active low, JST B4P-VH

Other:

Temperature range: 0 °C ... 50 °C
 Relative humidity 30 ... 90 %, no condensing
 MTBF > 500 000h

Standards:

EN50081-2
 EN50082-2
 EN61000-6-4
 EN 61000-6-2
 EN 50178, Electrical safety
 UL508

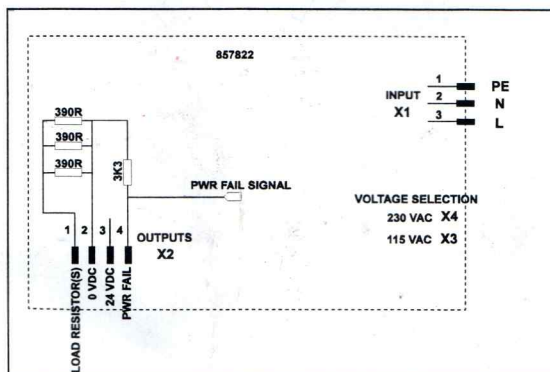
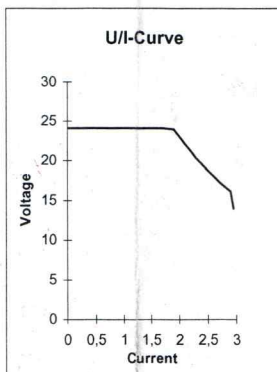
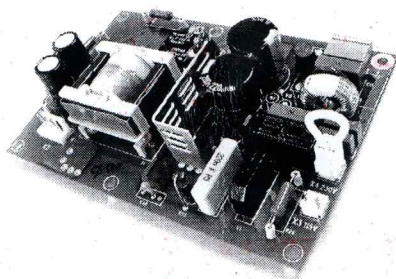


Housing:

Dimensions, open frame: 145 x 100 x 40 mm (W x H x D)
 Weight: 0,21 kg
 Fixing: with M4 combiscrews, not included
 Laquering: Yes
 Mounting: PC-board vertically, due to the natural convection

Handling:

Note! ESD-sensitive components on the PC-board.
 Note ! After disconnecting from the mains internal voltages remain at the hazardous level for 2 minutes.



DATA SHEET

23.08.2002 857822F.xls Rev. 4.8.2004

Switch mode power supply 115 / 230 VAC / 24 VDC / 1,7 ADC

AGPS21 GDR POWER SUPPLY, 40 W. Art. No. 857822