- **Euro card 3U, 8TE**
- **U_{in} switch-over 115 V / 230 V**
- **Input noise suppression EN 55011.B**
- **Disturbance protection:**
  EN 61000-4-4 (Burst) level 3
  EN 61000-4-5 (Surge) level 3
- **Four output voltages**
- **Short circuit, no-load, over load protected**
- **Hold-up time > 20 ms**
- **Power-Fail-Signal**
- **Active transient protection filter**
  (SYKO patent no. 3804074 and 0402367)

for instrumentation and automation,
telecommunications

Series AEA 02

Main points:

all outputs:
- No-load, static over load protected
- No crosswise interference

Output 1:
- Accuracy absolute ± 1,5 %
- Regulation Σ (U_{in} / I_{out} / T_U) ≤ ± 2 %
- Short circuit current ≤ 1,1 I_{nom}
- Response time ΔI = 50% ≤ 200 µs
- Ripple < 10 mV_{pp} (const. over T_U)
- Spikes < 100 mV_{pp} (T 1:1/50MHz)
- With sense lines

Output 2:
- Accuracy absolute ± 1 %
- Regulation Σ(U_{in} / I_{out} / T_U) ≤ ± 2%
- Short circuit current ≤ 1,6 I_{nom}
- Response time ΔI = 50% ≤ 30 µs

Output 3:
- Accuracy absolute ± 1%
- Regulation Σ (U_{in} / I_{out} / T_U) ≤ ± 2%
- Short circuit current ≤ 1,2 I_{nom}
- Response time ΔI = 50% ≤ 300 µs

Output 4:
- Accuracy absolute ± 1%
- Regulation Σ (U_{in} / I_{out} / T_U) ≤ ± 4%
- Short circuit current ≤ 1,2 I_{nom}
- Response time ΔI = 50% ≤1ms

Input:
- Input filter EN 55011.B
- Active transient protection (SYKO-patent)
- Hold-up time > 20 ms
- Disturbance protection:
  EN 61000-4-4 (Burst) level 3
  EN 61000-4-5 (Surge) level 3

General:
- Isolation test voltage:
  Input - Output 3,75 KV AC
- Ambient temperature 0°C / +70°C
  without Derating
- Free air convection
- Style Euro card 160 x 100 mm²
  Height 8 TE Front panel
- Connector DIN 41612, 15-pol., style H

Uin	Uout	Iout	Model number
V	V	A	
82 - 264 AC	Ua1/ 5,1	8,0	AEA 02.V20.001
with switch over	Ua2/ 12,0	0,5	
±15%	Ua3/ 12,0	2,5	
45-440Hz	Ua4/ 24,0	3,0	
150 - 350 DC	Ua1/ 5,1	8,0	AEA 02.V25.002
surge proof	Ua2/ 12,0	0,5	
	Ua3/ 12,0	2,5	
	Ua4/ 24,0	3,0	

Modification costs for possible changes above values:: on request

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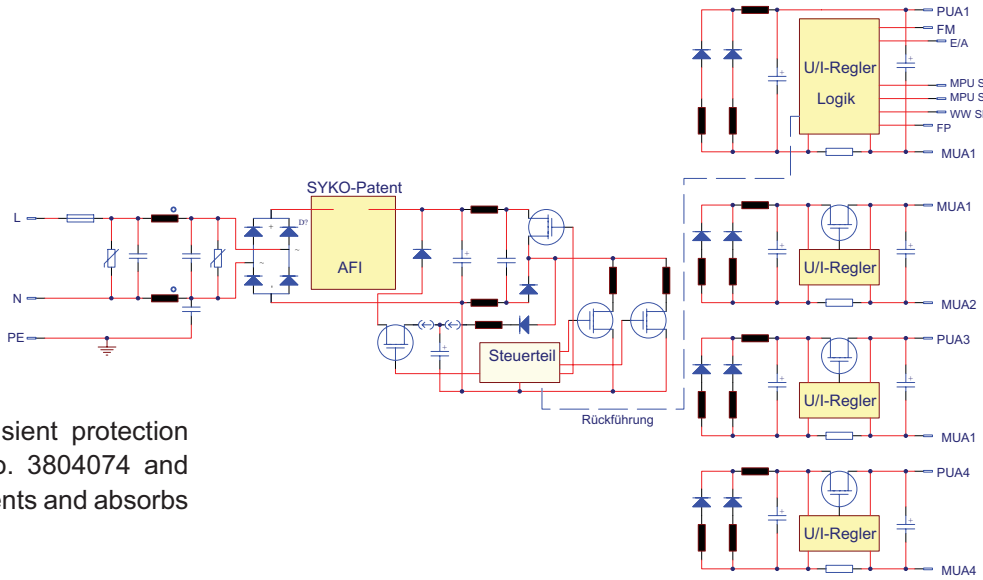
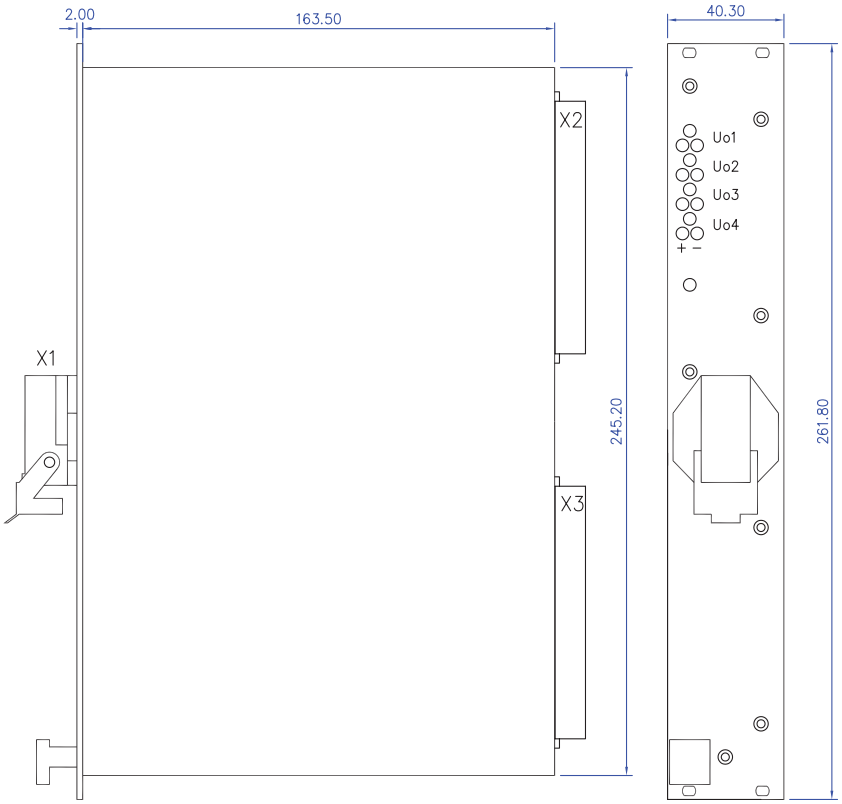
The AEA 02 series is designed to generate multiple output voltages. The used switching topology is ideal to generate multiple outputs without load and functional interference. Each output is isolated and separated short circuit regulated, no-load proof and over load protected.



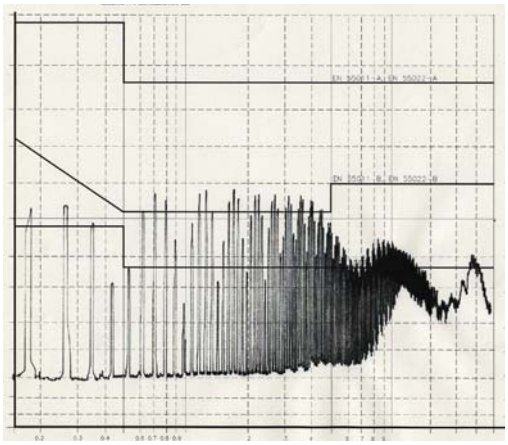
An input sided active transient protection filter AFI (SYKO patent no. 3804074 and 0402367) limits inrush currents and absorbs long-term transients.

The power fail signal indicates the input sided power failure. Input sided short-term interruptions (approx. 5,5ms) are not indicated. The power fail signal is just active when the corresponding time is reached. The complete hold-up time is >20 ms = f(ΔC/aging/temperature).

Mechanics



Measurement of radio interference



Hold-up time-Diagramm

> Uin min