

ELETRAS

S.r.l.

dal 1978

ALSW3R24



Input: single-phase: 115 – 230 Vac

Output: 24 Vdc 50°C

Efficiency up to 85%

Strong overload without switch-off

Flexible Power continuity: from 36 to 72 W

DIN Rail Mountable

Extremely small size

3 Years warranty

Features

Input Data

Nominal Input Voltage (2 x Vac)	115 – 230 Vac
Input Voltage range (Vac)	90 – 264
Inrush Current (Vn and In Load)	≤ 19 A ≤ 5 msec.
Frequency	47 – 63 Hz
Input Current (115 – 230 Vac)	1 – 0.7 A
Internal Fuse	T 4 A
External Fuse (recommended)	6 A (MCB curve B)

Output Data

Output Voltage (Vn) Factory Setting ±3%	24 Vdc
Adjustment range (Vadj)	22 – 27 Vdc
Start up with Strong Load (capacitive load)	≤ 50.000μF
Turn-On delay after applying mains voltage	1.5 sec. (max)
Continuous Current at 24 V < 40°C (In)	2 A (115) 3 A (230)
Continuous Current at 24 V < 50°C (In)	1.5 A (115) 2.5 A (230)
Power Boost Current at 24 Vdc 50°C(In)	3.5 A ≥ 3 min.
Current max. Overload ≅ 4Vdc (permanent)	$I_{max} = I_n 50^\circ C \times (1.8 - 2.2)$
Max current Short Circuit (Icc)	7 A
Hold-up Time (min. Vac) Vn In 40°C	Typ. 20 msec
Residual Ripple	≤ 80 mV _{pp}
Efficiency	≥ 85 %
Over temperature Protection	Yes. Shut-down output and automatic restart.
Short-circuit protection	Yes, Continuous Mode
Max Dissipation Power at Vn In 40°C	13
Over Load protection	Yes, Continuous Mode
Over Voltage Output protection	Yes (typ. 35 Vdc)
Parallel connection	Yes

Climatic Data

Ambient Temperature operation	-25 up to +70 °C (>50°derating 2.5% °C)
Ambient Temperature Storage	-40 up to +85 °C
Humidity at 25 °C, no condensation	95 % to 25 °C

General Data

Isolation Voltage (In / Out)	3000 Vac
Isolation Voltage (In / PE)	1605 Vac
Isolation Voltage (Out / PE)	500 Vac
Protection Class (EN/IEC 60529)	IP 20
Reliability: MTBF IEC 61709	> 500.000 h
Pollution Degree Environment	2
Connection Terminal Blocks Screw Type	2,5 mm ² (24 – 14 AWG)
Protection class	I with PE connected
Dimension (w-h-d)	50x120x50 mm
Weight	0.3 kg approx.

Norms and certifications

The CE mark in According to EMC 2014/30/UE and Low voltage directive 2014/35/UE.

Electrical Safety

In compliance to UL508. EN IEC 61010-2-201:2018

According to IEC/EN 60950 (VDE 0805) e EN 50178 (VDE 0160) for assembling device. The unit must be installed according to IEC/EN 60950. Input / Output separation: SELV EN60950-1 6 Edition, and PELV EN 60204-1. Double or reinforced insulation.

EMC Immunity

EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6, EN61000-6-2

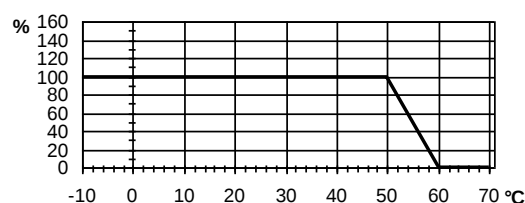
EMC Emission:

EN61000-6-4, EN61000-3-2; EN61000-3-3

Standards Conformity

EN 60204-1 Safety of Electrical Equipment Machines

**Output derating Curve
Continuous Load**



Output Voltage vs. Output Current, typ.

