

FLEX50024A



Input: single-phase: 115 - 230 Vac

Output: 24 Vdc 60°C

Efficiency up to 91%

Strong overload without switch-off, up to 50%

Flexible Power continuity : from 480 to 600W

Tree type of modality protections:

- 1) Hiccup mode
- 2) Fold Back
- 3) Restart after Main

DIN Rail Mountable

Extremely small size

3 Year warranty

Features

Input Data

Nominal Input Voltage (2 x Vac)	115 – 230 Vac
Manual select Input from 115 to 230	
Input Voltage range (Vac)	90 – 135 (115) 180 – 264 (230)
Inrush Current (Vn and In Load) I ² t	≤ 11 A ≤ 5 msec.
Frequency	47 – 63 Hz ±6%
Input Current (115 – 230 Vac)	4.2 – 2.9 A
Internal Fuse	T 4 A
External Fuse (recommended)	4 A (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 sec. (max)
Continuous Current at 24 V < 40°C (In)	25 A (permanent)
Continuous Current at 24 V < 50°C (In)	22 A (permanent)
Continuous Current at 24 V < 60°C (In)	20 A (permanent)
Max current	35 A
Hold-up Time (min. Vac) 24Vdc 5A	Typ. 40 msec
Residual Ripple	≤ 80 mV _{pp}
Efficiency	≥ 91 %
Over temperature Protection	Yes. Shut-down output and automatic restart.
Short-circuit protection	1° Hiccup Mode 2° Fold Back 3° Restart After Main
Dissipation power load max (W)	28
Over Load protection	Yes
Over Voltage Output protection	Yes (typ. 35 Vdc)
Parallel connection	Yes

Climatic Data

Ambient Temperature operation	-25 up to +70 °C (>60° 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
Protection class	I with PE connected
Dimension (w-h-d)	100x115x135 mm
Weight	0.75 kg approx.

Norms and certifications

The CE mark in According to EMC 89/336/EEC and 93/68/EEC and the Low voltage directive 73/23/EWG.

Electrical Safety

According to UL508, 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 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, EN 61000-4-11

EMC Emission:

EN 55011, EN61000-3-2

Standards Conformity

EN 60204-1 Safety of Electrical Equipment Machines
EN 61558-2-17 Safety of power transformer

