

FLEX50024A



Input: single-phase: 115 - 230 Vac

Output: 24 Vdc 60 °C

Efficiency up to 90%

Strong overload without switch-off, up to 50%

Flexible Power continuity : from 480 to 600W

“Power Good” Relay

Three mode of output protections:

- 1) Manual Reset
- 2) Hiccup Mode
- 3) Continuous Out Mode

DIN Rail Mountable

Extremely small size

3 Year warranty

Input Data

Nominal Input Voltage (2 x Vac)	115 – 230
Manual select Input from 115 to 230	
Input Voltage range: (115)	90-135 Vac
(230)	170-264 Vac 238-370 Vdc
Inrush Current (Vn and In 40°C)	≤ 80 A ≤ 5 msec.
Frequency	47 – 63 Hz
Input Current (115 – 230 Vac, In 40°C)	8 – 4.2 A
Internal Fuse	T 10 A
External Fuse (recommended)	16 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 sec. (max)
Continuous Current at 24 V < 40°C (In)	25 A
Continuous Current at 24 V < 50°C (In)	22 A
Continuous Current at 24 V < 60°C (In)	20 A
Power Boost Current at 24 Vdc 60°C(In)	In 60°C x 1.5 ≥ 3 min.
Current max. Overload ≅ 4Vdc (permanent)	I _{max} =In60°Cx(1.8 -2.2)
Maximum Short Circuit Current I _{cc}	
Hiccup mode: Max 2 sec. Continuous Mode	60 A
Hold-up Time (min. Vac) Vn In 40°C	Typ. 20 msec
Residual Ripple	≤ 80 mV _{pp}
Efficiency	≥ 90 %
Over temperature Protection	Yes. Shut-down output and automatic restart.
Short-circuit protection	1° Manual Reset 2° Hiccup Mode 3° Continuous Out Mode
Max Dissipation Power at Vn In 40°C	62 W
Over Load protection	Yes
Over Voltage Output protection	Yes (typ. 35 Vdc)
Parallel connection	Yes. “Easy Parallel”
Power Good Contact rating (EN60947.4.1):	
Max. DC1: 30 Vdc 1 A; AC1: 60 Vac 1A	Resistive load
Min.1mA at 5 Vdc	Min permissive load

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	4 mm ² (30-10 AWG)
Protection class	I with PE connected
Dimension (w-h-d)	85x120x140 mm
Weight	0.75 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.

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 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; EN61000-3-3

Standards Conformity

EN 60204-1 Safety of Electrical Equipment Machines

