

FLEX6024A



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)	$\leq 19 \text{ A} \leq 5 \text{ msec.}$
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 $\pm 3\%$	24 Vdc
Adjustment range (Vadj)	22 – 27 Vdc
Start up with Strong Load (capacitive load)	$\leq 50.000\mu\text{F}$
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 $\geq 3 \text{ min.}$
Current max. Overload $\cong 4\text{Vdc}$ (permanent)	$I_{\text{max}} = I_n 50^\circ\text{C} \times (1.8 - 2.2)$
Max current Short Circuit (Icc)	7 A
Hold-up Time (min. Vac) Vn In 40°C	Typ. 20 msec
Residual Ripple	$\leq 80 \text{ mV}_{\text{pp}}$
Efficiency	$\geq 85 \%$
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 ($>50^\circ$ 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	$> 500.000 \text{ h}$
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.

Regulatory Compliance

- CE mark in conformity with EU Directives: EMC, LVD and RoHS.
- UKCA mark in conformity with UK S.I. 2016/1091, 2016/1101, 2012/3032.
- REACH Regulation 1907/2006.

Standards Conformity

- EN IEC 61010-2-201:2018 Safety requirements for electrical equipment for measurement, control and laboratory use.

Approvals

- UL508 Industrial Control Equipment for US & Canada (E308682).

EMC

- EMC Immunity EN 61000-6-2 for industrial environments: EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6, EN 61000-4-8, EN 61000-4-11.
- EMC Emission EN 61000-6-4 for industrial environments (Class A).



