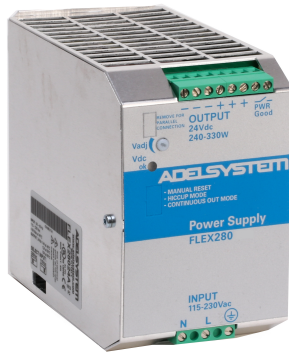


# FLEX28024A



**Input: 115 – 230 Vac**  
**Output: 24 Vdc 60°C**  
**Efficiency up to 89%**  
**Strong overload without switch-off, up to 50%**  
**Flexible Power continuity: from 240 to 336 W**  
**“Power Good” Relay**  
**Three mode of output protections:**

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

**DIN Rail Mountable**  
**Extremely small size**  
**3 Years warranty**

## Input Data

Nominal Input Voltage (2 x Vac)	
Manual select Input from 115 to 230	<b>115 – 230 Vac</b>
Input Voltage range: (115)	<b>90-135 Vac</b>
(230)	<b>170-264 Vac 238-370 Vdc</b>
Inrush Current (Vn and In 40°C)	<b>≤ 42 A ≤ 5 msec.</b>
Frequency	<b>47 – 63 Hz</b>
Input Current (115 – 230 Vac, In 40°C)	<b>4.4 – 2.2 A</b>
Internal Fuse	<b>T 6.3 A</b>
External Fuse (recommended)	<b>16 A (MCB curve B)</b>

## Output Data

Output Voltage (Vn) Factory Setting ±3%	<b>24 Vdc</b>
Adjustment range (Vadj)	<b>22 – 27 Vdc</b>
Start up with Strong Load (capacitive load)	<b>≤50.000µF</b>
Turn-On delay after applying mains voltage	<b>1 sec. (max)</b>
Rated Current at 24 V 40°C (In)	<b>14 A</b>
Rated Current at 24 V 50°C (In)	<b>12 A</b>
Rated Current at 24 V 60°C (In)	<b>10 A</b>
Power Boost Current at 24 Vdc 60°C(In)	<b>In 60 °C x 1.5 ≥ 3 min.</b>
Current max. Overload ≅ 4Vdc (permanent)	<b>I<sub>max</sub>=In60 °C x (1.8 - 2.2)</b>
Maximum Short Circuit Current I <sub>cc</sub>	
Hiccup mode: Max 2 sec. Continuous Mode	<b>30 A</b>
Hold-up Time ( min. Vac) Vn In 40°C	<b>Typ. 20 msec</b>
Residual Ripple	<b>≤ 80 mV<sub>pp</sub></b>
Efficiency	<b>≥ 89 %</b>
Over temperature Protection	<b>Yes. Shut-down output and automatic restart.</b>
Short-circuit protection	<b>1° Hiccup Mode</b>
	<b>2° Continuous mode</b>
	<b>3° Restart After Main</b>
Max Dissipation Power at Vn In 40°C	<b>42 W</b>
Over Load protection	<b>Yes</b>
Over Voltage Output protection	<b>Yes (typ. 35 Vdc)</b>
Parallel connection	<b>Yes. “Easy Parallel”</b>
Power Good Contact rating (EN60947.4.1):	
Max. DC1: 30 Vdc 1 A; AC1: 60 Vac 1A	<b>Resistive load</b>
Min.1mA at 5 Vdc	<b>Min permissible load</b>

## Climatic Data

Ambient Temperature operation	<b>-25 up to +70 °C</b> <b>(&gt;60°derating 2.5% °C)</b>
Ambient Temperature Storage	<b>-40 up to +85 °C</b>
Humidity at 25 °C, no condensation	<b>95 % to 25 °C</b>

## General Data

Isolation Voltage (In / Out)	<b>3000 Vac</b>
Isolation Voltage (In / PE)	<b>1605 Vac</b>
Isolation Voltage (Out / PE)	<b>500 Vac</b>
Protection Class (EN/IEC 60529)	<b>IP 20</b>
Reliability: MTBF IEC 61709	<b>&gt; 500.000 h</b>
Pollution Degree Environment	<b>2</b>
Connection Terminal Blocks Screw Type	<b>2,5 mm (24 – 14 AWG)</b>
Protection class	<b>I with PE connected</b>
Dimension (w-h-d)	<b>72x115x135 mm</b>
Weight	<b>0.85 kg approx.</b>

## 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).

