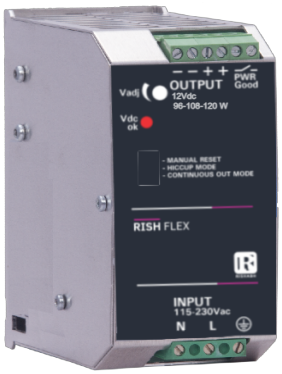
RISH FLEX 9012A



RoHS

CE

Input: single-phase: 115 - 230 Vac

Output: 12 Vdc 60°C

Flexible Power continuity :from 95 to 120 W
Efficiency up to 91%

Strong overload without switch-off, up to 50%

"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 Year warranty

Input Data

Nominal Input Voltage (2 x Vac) Manual select Input from 115 to 230	**115 – 230 Vac**
Input Voltage range (Vac)	**90 – 135 (115)** **180 – 280 (230)**
Inrush Current (Vn and In Load) I^2t	**≤ 16 A ≤ 5 msec.**
Frequency	**47 – 63 Hz ±6%**
Input Current (115 – 230 Vac)	**1.8 – 0.9 A**
Internal Fuse	**T 4 A**
External Fuse (recommended)	**10 A (MCB curve B)**

Output Data

Output Voltage (Vn) Factory Setting ±3%	**12 Vdc**
Adjustment range (Vadj)	**10 – 14 Vdc**
Start up with Strong Load (capacitive load)	**≤ 50,000µF**
Turn-On delay after applying mains voltage	**1 sec. (max)**
Rated Current at 12 V 40°C (In)	**10 A (permanent)**
Rated Current at 12 V 50°C (In)	**9 A (permanent)**
Rated Current at 12 V 60°C (In)	**8 A (permanent)**
Power Boost Current at 12 Vdc 60°C(In)	**10 A ≤ 3 min.**
Current max. Overload ≅ 4Vdc (permanent)	**Imax=In60°Cx(1.8 - 2.2)**
Current Short Circuit Icc Max 2 sec.: Hiccup mode Permanent : Continuous Mode	**20 A**
Hold-up Time (min. Vac)	**Typ. 20 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° Continuous mode
	3° Manual Reset
Dissipation power load max (W)	**11**
Over Load protection	**Yes**
Over Voltage Output protection	**Yes (typ. 35 Vdc)**
Parallel connection	**Yes**
Power Good Contact rating (EN60947.4.1): Max. DC1: 30 Vdc 1 A; AC1: 60 Vac 1A Min.1mA at 5 Vdc	**Resistive load** **Min permissive load**

Climatic Data

Ambient Temperature operation	**-25°C up to +70 °C** **(>60°C Derating 2.5% °C)**
Ambient Temperature Storage	**-40°C 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	**> 5,00,000 h**
Pollution Degree Environment	**2**
Connection Terminal Blocks Screw Type	**2.5 mm² (24 – 14 AWG)**
Protection class	**I with PE connected**
Dimension (w-h-d)	**55x110x105 mm**
Weight	**0.60 kg approx.**

Norms and certifications

The CE mark in According to EMC *2004/108/EC* and Low voltage directive *2006/95/EC*.

Electrical Safety

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, EN61000-3-2

Standards Conformity

EN 60204-1 Safety of Electrical Equipment Machines