

RISH FLEX 17012A



Input: single-phase: 115 - 230 Vac

Output: 12 Vdc 60 °C

Flexible Power continuity :from 120 to 180 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) | 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) | 2.8 – 1.3 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) | ≤ 50.000- μ F |
| Turn-On delay after applying mains voltage | 1 sec. (max) |
| Rated Current at 12 V 40°C (In) | 14 A (permanent) |
| Rated Current at 12 V 50°C (In) | 12 A (permanent) |
| Rated Current at 12 V 60°C (In) | 10 A (permanent) |
| Power Boost Current at 12 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) |
| Current Short Circuit I _{cc} | |
| Max 2 sec.: Hiccup mode | 20 A |
| Permanent : Continuous Mode | |
| Hold-up Time (min. Vac) 12Vdc 5A | 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) | 17 |
| 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 permissible 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 | 2,5 mm (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

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, EN61000-3-2

Standards Conformity

EN 60204-1 Safety of Electrical Equipment Machines

