

RISH FLEX 6012A



Input: single-phase: 115 - 230 Vac
Output: 12 Vdc 50 °C
Efficiency up to 88%
Strong overload without switch-off
Flexible Power continuity : from 36 to 72 W
DIN Rail Mountable
Extremely small size
3 Year 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) I^2t	$\leq 7 \text{ A} \leq 5 \text{ msec.}$
Frequency	47 – 63 Hz $\pm 6\%$
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 $\pm 3\%$	12 Vdc
Adjustment range (Vadj)	10 – 15.5 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 12 V up to 40°C (In)	4 A (115) 6 A (230)
Continuous Current at 12 V up to 50°C (In)	3 A (115) 5 A (230)
Power Boost Current at 12 Vdc 50°C(In)	7 A up to 3 min.
Power Boost Current at 15 Vdc 50°C(In)	6 A up to 3 min.
Current max. Overload $\cong 4\text{Vdc}$ (permanent)	$I_{\text{max}}=I_{\text{n}}50^{\circ}\text{C} \times (1.8 - 2.2)$
Max current Short Circuit (Icc)	10 A
Hold-up Time (min. Vac) 12Vdc 5A	Typ. 20 msec
Residual Ripple	$\leq 80 \text{ mV}_{\text{pp}}$
Efficiency	$\geq 88 \%$
Over temperature Protection	Yes. Shut-down output and automatic restart.
Short-circuit protection	Yes, Continuous Mode
Dissipation power load max (W)	6
Over Load protection	Yes, Continuous Mode
Over Voltage Output protection	Yes (typ. 30 Vdc)
Parallel connection	Yes

Climatic Data

Ambient Temperature operation	-25 up to +70 °C (>50°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)	50x120x50 mm
Weight	0.3 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 6 Edition, 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

