

# FLEX17012A



**Input: 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**  
**Tree 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)	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)	≤ 11 A ≤ 5 msec.
Frequency	47 – 63 Hz
Input Current (230 – 400 – 500 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)	≤50.000µF
Turn-On delay after applying mains voltage	1 sec. (max)
Continuous Current at 12 V < 40°C (In)	14 A
Continuous Current at 12 V < 50°C (In)	12 A
Continuous Current at 12 V < 60°C (In)	10 A
Power Boost Current at 12 Vdc 60°C(In)	In (60°C) x 1.5 3 min.
Current max. Overload ≅ 4Vdc (permanent)	I <sub>max</sub> =In60°Cx(1.8 - 2.2)
Maximum Short Circuit Current I <sub>cc</sub>	
Hiccup mode: Max 2 sec. Continuous Mode	20 A
Hold-up Time ( min. Vac ) 12Vdc 5A	Typ. 20 msec
Residual Ripple	≤ 80 mV <sub>pp</sub>
Efficiency	≥ 91 %
Over temperature Protection	Yes. Shut-down output and automatic restart.
Short-circuit protection	1° Manual Reset 2° Hiccup Mode 3° Continuous Out Mode
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	Resistive load
Min.1mA at 5 Vdc	Min permissive 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 <sup>2</sup> (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 2014/30/UE and Low voltage directive 2014/35/UE.

## Electrical Safety

In compliance to UL508. EN IEC 61010-2-201:2018  
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

