

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 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)	$\leq 11 \text{ A} \leq 5 \text{ msec.}$
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 $\pm 3\%$	12 Vdc
Adjustment range (Vadj)	10 – 14 Vdc
Start up with Strong Load (capacitive load)	$\leq 50.000 \mu\text{F}$
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)	$I_n (60^\circ\text{C}) \times 1.5 \text{ 3 min.}$
Current max. Overload $\cong 4\text{Vdc}$ (permanent)	$I_{\text{max}} = I_n 60^\circ\text{C} \times (1.8 - 2.2)$
Maximum Short Circuit Current Icc	
Hiccup mode: Max 2 sec. Continuous Mode	20 A
Hold-up Time (min. Vac) 12Vdc 5A	Typ. 20 msec
Residual Ripple	$\leq 80 \text{ mV}_{\text{pp}}$
Efficiency	$\geq 91 \%$
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 Min.1mA at 5 Vdc	Resistive load 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 ² (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.

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

