

FLEX 15048A



Input: single-phase: 115 - 230 Vac

Output: 48 Vdc 60 °C

Flexible Power continuity :from 120 to 150 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 – 280 (230)
Inrush Current (Vn and In Load) I^2t	$\leq 16 \text{ A} \leq 5 \text{ msec.}$
Frequency	47 – 63 Hz $\pm 6\%$
Input Current (115 – 230 Vac)	2.6 – 1.15 A
Internal Fuse	T 4 A
External Fuse (recommended)	10 A (MCB curve B)

Output Data

Output Voltage (Vn) Factory Setting $\pm 3\%$	48 Vdc
Adjustment range (Vadj)	41 – 55 Vdc
Start up with Strong Load (capacitive load)	$\leq 50,000\mu\text{F}$
Turn-On delay after applying mains voltage	1 sec. (max)
Rated Current at 48 V 40°C (In)	3.13 A (permanent)
Rated Current at 48 V 50°C (In)	2.82 A (permanent)
Rated Current at 48 V 60°C (In)	2.5 A (permanent)
Power Boost Current at 48 Vdc 60°C(In)	3.13 A $\leq 3 \text{ min.}$
Current max. Overload $\cong 4\text{Vdc}$ (permanent)	$I_{\text{max}} = I_{\text{n60°C}} \times (1.8 - 2.2)$
Current Short Circuit Icc	
Max 2 sec.: Hiccup mode	7.5 A
Permanent : Continuous Mode	
Hold-up Time (min. Vac)	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° Hiccup Mode 2° Continuous mode 3° Restart After Main
Dissipation power load max (W)	13
Over Load protection	Yes
Over Voltage Output protection	Yes (typ. 72Vdc)
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°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 mm ²
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 89/336/EEC and 93/68/EEC and the 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

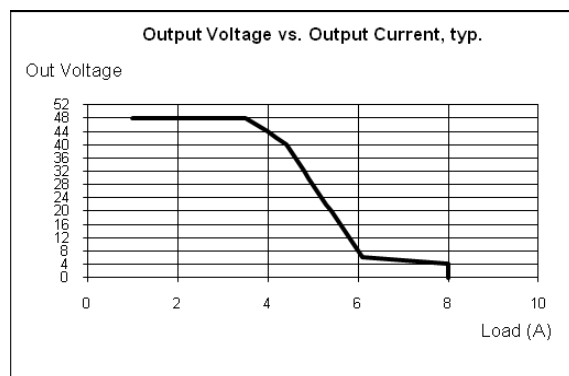
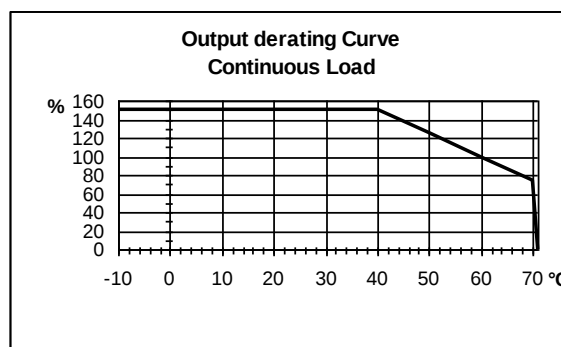
EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN61000-6-2

EMC Emission:

EN61000-6-4, EN61000-3-2

Standards Conformity

EN 60204-1 Safety of Electrical Equipment Machines



All specifications are subject to change without notice
Revision: A