

FLEX6012A



Input: 115 – 230 Vac

Output: 12 Vdc 60°C

Flexible Power continuity :from 36 to 72 W

Efficiency up to 88%

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

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	$\leq 80 \text{ mVpp}$
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 ($>50^\circ\text{derating } 2.5\% ^\circ\text{C}$)
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	$> 500.000 \text{ h}$
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.

Regulatory Compliance

- CE mark in conformity with EU Directives: EMC, LVD and RoHS.
- UKCA mark in conformity with UK S.I. 2016/1091, 2016/1101, 2012/3032.
- REACH Regulation 1907/2006.

Standards Conformity

- EN IEC 61010-2-201:2018 Safety requirements for electrical equipment for measurement, control and laboratory use.

EMC

- EMC Immunity EN 61000-6-2 for industrial environments: EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6, EN 61000-4-8, EN 61000-4-11.
- EMC Emission EN 61000-6-4 for industrial environments (Class A).

