

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: (115) | 90-135 Vac |
| (230) | 170-264 Vac 238-370 Vdc |
| 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

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|---|---|
| Output Voltage (Vn) Factory Setting ±3% | 12 Vdc |
| Adjustment range (Vadj) | 12 – 15 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 _{max} =In60°Cx(1.8 - 2.2) |
| Maximum Short Circuit Current I _{cc} | |
| Hiccup mode: Max 2 sec. Continuous Mode | 20 A |
| Hold-up Time (min. Vac) 12Vdc 5A | Typ. 20 msec |
| Residual Ripple | ≤ 80 mV _{pp} |
| 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 permissible load |

Climatic Data

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|------------------------------------|--|
| 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. |

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)

