

FLEX6005A



Input: single-phase: 115 – 230 Vac
Output: 5 Vdc 50°C
Efficiency up to 82%
Strong overload without switch-off
Flexible Power continuity : up to 35 W
DIN Rail Mountable
Extremely small size
3 Year 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 ² t | ≤ 7 A ≤ 5 msec. |
| Frequency | 47 – 63 Hz ±6% |
| Input Current (115 – 230 Vac) | 0.5 – 0.25 A |
| Internal Fuse | T 4 A |
| External Fuse (recommended) | 6 A (MCB curve B) |

Output Data

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|--|---|
| Output Voltage (Vn) Factory Setting ±3% | 5 Vdc |
| Adjustment range (Vadj) | 4.75 – 5.25 Vdc |
| Start up with Strong Load (capacitive load) | ≤ 50.000µF |
| Turn-On delay after applying mains voltage | 1 sec. (max) |
| Continuous Current at 5 V up to 40°C (In) | 5 A |
| Continuous Current at 5 V up to 50°C (In) | 5 A |
| Continuous Current at 5 V up to 60°C (In) | 5 A |
| Power Boost Current at 5 Vdc up to 50°C(In) | 7 A ≥ 3 min. |
| Current max. Overload ≅ 2Vdc (permanent) | I_{max}=I_n50°Cx(1.3-1.4) |
| Max current Short Circuit (I _{cc}) | 10 A |
| Hold-up Time (min. Vac) 5Vdc 5A | Typ. 20 msec |
| Residual Ripple | ≤ 80 mV_{pp} |
| Efficiency | ≥ 82 % |
| 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. 15 Vdc) |
| Parallel connection | Yes |

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 (24 – 14 AWG) |
| Protection class | I with PE connected |
| Dimension (w-h-d) | 50x120x50 mm |
| Weight | 0.3 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 6 Edition, 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

