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^2t	**≤ 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

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)	**Imax=In50°Cx(1.3-1.4)**
Max current Short Circuit (Icc)	**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.**

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).