

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

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}=In50°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

