FLEX6005A

35 W AC/DC Power Supply Unit – DIN rail

CoolPower Solutions

- Universal Input Range 90 - 264 VAC, 47-63 Hz
- 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



Electrical specifications

Input Data

Voltage Range	90 - 264 VAC
Frequency	47 - 63 Hz
Inrush Current (Vn-In nom.load)I²t	≤ 7 A ≤ 5 ms
Input Current (115 VAC – 230 VAC)	0,5 - 0,25 A
Internal Fuse, not replaceable	T4 A
External Fuse recommended MCB curve B	6 A

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
Efficiency	≥82%
Turn-on delay after applying mains voltage	1 s max
Rated Current at 5 V 40°C (In)	5 A (230 VAC)
Rated Current at 5 V 50°C (In)	5 A (230 VAC)
Rated Current at 5 V 60°C (In)	5 A (230 VAC)
Power Boost Current at 5 Vdc 50°C(In)	7 A up to 3 min
Current max. Overload a.2Vdc permanent	=In50 °Cx(1.3 -1.4)
Current Short Circuit Icc	10 A
Hold-up Time (min. Vac) 5Vdc 5A	Typ. 20 msec
Residual Ripple	≤ 80 mVpp
Over temperature Protection (Shut-down output and automatic restart)	Yes
Dissipation power load max	6 W
Short-circuit Protection	Yes
	Continuous mode
Over Load Protection	Yes
Over Voltage Output Protection	Yes, typ 15 VDC
Parallel connection	Yes

Climatic Data

Ambient operation Temperature	-25 - +70°C
Derating	>60°derating 2.5% °C
Ambient stocking Temperature	-40 - +85°C
Humidity at 25 °C no condensation	95%, 25°C
Cooling	Free air convection

General Data

Insulation Voltage (Input/Output)	3000 VAC
Insulation Voltage (Input/Ground)	1605 VAC
Insulation Voltage (Output/Ground)	500 VAC
Protection Class (EN/IEC 60529)	IP20
Reliability: MTBF IEC 61709	> 500 000 h
Pollution Degree Environment	2
Connection Terminal Blocks, screw type	2,5 mm (24-14 AWG)
Protection Class (PE connected)	I, with PE
Dimensions (WxHxD)	50 x 120 x 50 mm
Weight	0,3 kg

Norms and certifications

The CE mark in According to EMC 2014/30/UE and Low voltage directive 2014/35U/E.

Electrical Safety

In compliance to UL508.
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. Edit and PELV EN 60204-1. Double or reinforced insulation.

EMC Immunity

EN 61000-4-2, -3,-4, -5, -6, EN61000-6-2

EMC Emission:

EN61000-6-4, EN61000-3-2

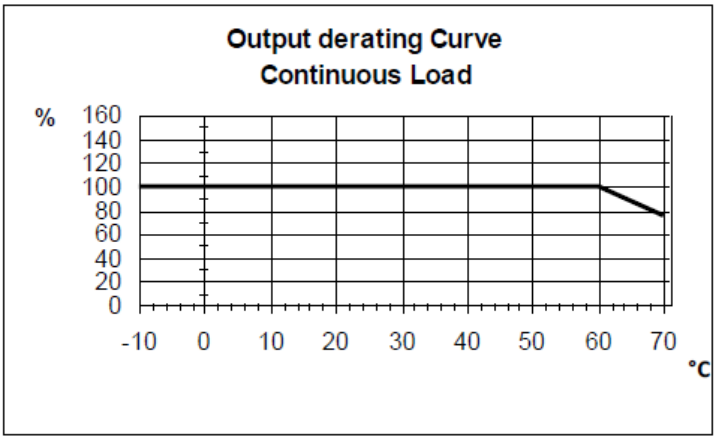
Standards Conformity

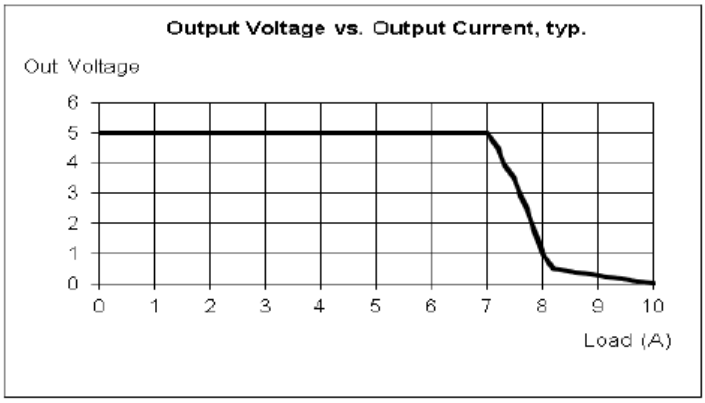
EN 60204-1 Safety of Electrical Equipment Machines

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