

# FLEX6024A

60 W AC/DC Power Supply Unit – DIN rail

CoolPower  
Solutions

- Universal Input Range 90 - 264 VAC, 47-63 Hz
- Output 24 VDC 50 °C
- Efficiency up to 85 %
- Strong overload without switch-off
- Flexible Power continuity : from 36W to 72 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 )I<sub>r</sub> ≤ 19 A ≤ 5 ms

Input Current (115 VAC – 230 VAC) 1,0 - 0,7 A

Internal Fuse, not replaceable T4 A

External Fuse recommended MCB curve B 6 A

### Output Data

Output Voltage (Vn) Factory setting ±3% 24 VDC

Adjustment range (Vadj) 22 - 27 VDC

Start up with Strong Load (capacitive load) ≤50.000µF

Efficiency ≥85%

Turn-on delay after applying mains voltage 1,5 s max

Rated Current at 24 V 40°C (In) 3 A (230 VAC)

Rated Current at 24 V 50°C (In) 2,5 A (230 VAC)

Power Boost Current at 24 Vdc 50°C(In) 3,5 A up to 3 min

Current max. Overload a.4Vdc permanent =In50 °Cx(1.8 - 2.2)

Current Short Circuit I<sub>cc</sub> 7 A

Hold-up Time ( min. Vac) Vn In 40°C Typ. 20 msec

Residual Ripple ≤ 80 mVpp

Over temperature Protection Yes

(Shut-down output and automatic restart)

Dissipation power load max Vn In 40°C 13 W

Short-circuit Protection Yes

Continuous mode

Over Load Protection Yes

Over Voltage Output Protection Yes, typ 35 VDC

Parallel connection Yes

### Climatic Data

Ambient operation Temperature -25 - +70°C

Derating >50°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, -3

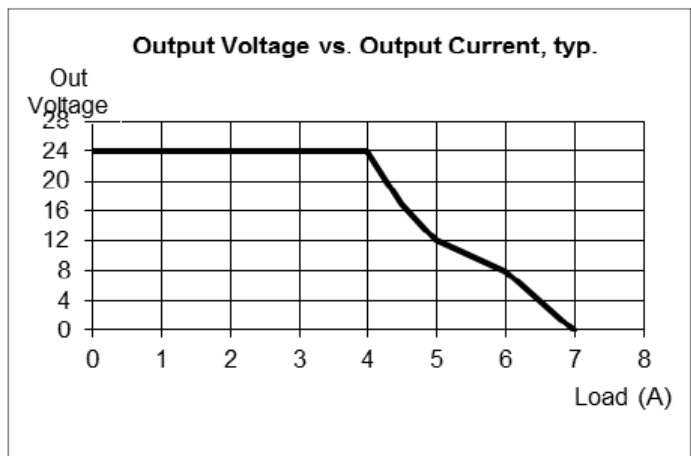
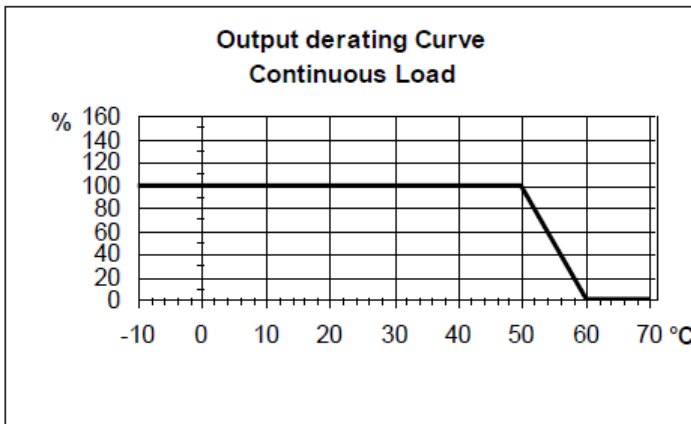
### Standards Conformity

EN 60204-1 Safety of Electrical Equipment Machines

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