

FLEX17012A

120 W AC/DC Power Supply Unit – DIN rail

CoolPower
Solutions

- Universal Input Range 115 / 264 VAC, 47-63 Hz
- Output 12 VDC 60 °C
- Efficiency up to 91 %
- Strong overload without switch-off, up to 50%
- Flexible Power continuity : from 120 to 180 W
- Power Good Relay
- Tree mode of output protections:
 - 1) Hiccup mode
 - 2) Continuous Out Mode
 - 3) Manual Reset
- DIN Rail Mountable
- Extremely small size



Electrical specifications

Input Data

Voltage Range	90 - 135 VAC
(Manual select input from 115 V to 230 V)	180 – 264 VAC
Frequency	47 - 63 Hz
Inrush Current (Vn-In nom.load)I _{pt}	≤ 11 A ≤ 5 ms
Input Current (115 VAC – 230 VAC)	2,8 – 1,3 A
Internal Fuse, not replaceable	T4 A
External Fuse recommended MCB curve B	10 A

Output Data

Output Voltage (Vn) Factory setting ±3%	12 VDC
Adjustment range (Vadj)	10 – 14 VDC
Start up with Strong Load (capacitive load)	≤50.000µF
Efficiency	≥91%
Turn-on delay after applying mains voltage	1 s max
Rated Current at 12 V 40°C (In)	14 A (permanent)
Rated Current at 12 V 50°C (In)	12 A (permanent)
Rated Current at 12 V 60°C (In)	10 A (permanent)
Power Boost Current at 12 Vdc 60°C(In)	In 60 °C x 1.5 ≥ 3 min
Current max. Overload a.4Vdc permanent	=In60 °C x (1.8 -2.2)
Current Short Circuit I _{cc}	
Max 2 sec.: Hiccup mode	20 A
Permanent : Continuous Mode	
Hold-up Time (min. Vac) 12Vdc 5A	Typ. 20 msec
Residual Ripple	≤ 80 mVpp
Over temperature Protection	Yes
(Shut-down output and automatic restart)	
Dissipation power load max	17 W
Short-circuit Protection	1° Manual reset
	2° Hiccup mode
	3° Continuous out
Over Load Protection	Yes
Over Voltage Output Protection	Yes, typ 35 VDC
Parallel connection	Yes
Power Good Contact rating (EN60947.4.1):	
Max. DC1: 30 Vdc 1 A; AC1: 60 Vac 1A	Resistive load
Min.1mA at 5 Vdc	Min permissive load

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)	55 x 110 x 105 mm
Weight	0,6 kg

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.

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 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

Standards Conformity

EN 60204-1 Safety of Electrical Equipment Machines

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