

2990102120

Powerbox PSU, 24V DC, 120W

Flowire Ex



Description

- ✓ GL approved for bridge use (pending)
- ✓ EN60945 compliant
- ✓ Universal input (90 – 265Vac)
- ✓ Efficiency above 90%
- ✓ Active Power Factor Correction
- ✓ Adjustable output
- ✓ Overload and overvoltage protection
- ✓ Thermal overload protection
- ✓ Conformal coating
- ✓ DC OK signal and potential free contact
- ✓ Cooling by free air convection
- ✓ DIN-Rail mounting on back or side
- ✓ RoHS compliant
- ✓ Internal redundancy diode

Specifications

INPUT

Input range	90 – 265 Vac , 125 – 375 Vdc.
Frequency	47 – 63 Hz, 440 Hz with reduced PFC.
Inrush Current	30 A; cold start @ 230Vac / 25°C.
Input current	<0.65A @ 230Vac.
Input fuse	3.15AT, internal, not user serviceable.
Efficiency	>90%.
Leakage current	<3.5 mA.

OUTPUT

Output voltage	24 V, adjustable 23 - 29V
Output power	125W. Peak power 187.5W (10s).
Minimum load	0A.
Load Regulation	±0.5 %.
Temperature coefficient	±0.02 %/°C.
Oversvoltage protection	32V
Overload protection	User selectable (see table 1).
Peak short circuit current	10 A (< 100 ms).
Overtemp. protection	±90°C internal temp.
Turn-on delay	<2 s @ 90 Vac
DC OK signalling	Green LED on front.
	Potential free contact;
	active closed; I < 1 A.
	open voltage < 30V.

ENVIRONMENTAL

Thermal performance

Operating temperature –25 - +70°C without derating.

Storage temperature –40 - +85°C.

Humidity 5 - 95%; non-condensing @ +55°C

Conformal coating.

Vibration Germanischer Lloyd table 3.16.

High vibration strain.

±1.6 mm displacement; 2 – 25 Hz

4g; 25 – 100 Hz (1 octave/min)

GENERAL

Isolation voltage Input/Output 3000 Vac.
Input/Chassis 2000 Vac.

Dimensions 132 x 37 x 128 mm (H x W x D) .

Excluding DIN-Rail mounting device.

Add 10 mm for standard mounting device and EN50022 DIN-Rail.

Weight < 0.8 kg.

STANDARDS

Safety standard	According to EN60950.
EMC Emissions	EN60945 conducted & radiated.
Harmonics	EN61000-3-2 compliant.
ESD	EN61000-4-2 Air \pm 8 kV, Contact \pm 6 kV.
Electromagnetic fields	EN61000-4-3 10V/m 8MHz- 2GHz.
EFT/Burst	EN61000-4-4 2kV.
Surge	EN61000-4-5 Line - Line 0.5kV, Line - GND 1kV.
Conducted immunity	EN61000-4-6 3VRMS, 150kHz-80MHz.
Conducted LF	IEC60533 3VRMS, 50Hz- 12kHz.
HV immunity	IEC60947-2 2kV, 60s.
GL	Germanischer Lloyd
	Environmental category: D, EMC1.
	Guidelines for the Performance of Type.
	Approvals Chapter 2, Edition 2003.
CE	Low Voltage Directive 2006/95/EC.
	EMC Directive 2004/108/EC.