

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
- Single or parallel mode user selectable

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.

Created: 08.09.2015, updated: 25.04.2019

page 1/3

www.zenitel.com

info@zenitel.com

Zenitel and its subsidiaries assume no responsibility for any errors that may appear in this publication, or for damages arising from the information therein. Vingtor-Stentofon products are developed and marketed by Zenitel. The company's Quality Assurance System is certified to meet the requirements in NS-EN ISO 9001. Zenitel reserves the right to modify designs and alter specifications without notice.

ZENITEL PROPRIETARY. This document and its supplementing elements, contain Zenitel or third party information which is proprietary and confidential. Any disclosure, copying, distribution or use is prohibited, if not otherwise explicitly agreed in writing with Zenitel. Any authorized reproduction, in part or in whole, must include this legend. Zenitel – All rights reserved.

INPUT	
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 ± 8 kV, Contact ± 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.

STANDARDS

Approvals Chapter 2, Edition 2003.

CE

Low Voltage Directive 2006/95/EC.

EMC Directive 2004/108/EC.
