VPS Series

VPS1-120/150

DIN Rail Power Supply Series

The VERSCH VPS1-120/150 Series includes compact, high-efficiency DIN rail power supplies available in 12V, 24V, and 48V output variants. Designed for industrial automation, control panels, and machine installations, these power supplies offer wide input ranges, advanced protection features, and reliable performance in harsh environments.

MODEL COMPARISON

Model	DC Voltage	Rated Current	Rated Power	Voltage Range	Over Voltage	Efficiency
VPS1-1201210	12V	10A	120W	12V-14V	14V~17V	85.5%
VPS1-1502405	24V	5A	120W	24V-28V	29V~33V	88.0%
VPS1-1504802	48V	2.5A	120W	48V-55V	56V~65V	89.0%

TECHNICAL SPECIFICATIONS

Parameter	Specification
Input Voltage Range	90–264VAC / 127–370VDC
AC current	2.25A / 115VAC, 1.3A / 230VAC
Inrush current	20A/115VAC, 35A/230VAC
Setup, Rise Time	1200ms, 60ms / 230VAC at full load 2500ms, 60ms / 115VAC at full load
Hold-up time	16ms / 230VAC at full load, 10ms / 115VAC at full load
Working Temperature	–20°C to +70°C
MTBF	450,000 hrs min. MIL-HDBK-217F (25°C)
Over Load Protection	Hiccup mode, recovers automatically after fault condition is removed
Over Voltage Protection	Shut Down O/P Voltage, Re-Power On To Recover
Status indicator	Green LED output (DC OK, if equipped)
Application suitability	Built for PLCs, relays, sensors, and 24V control logic

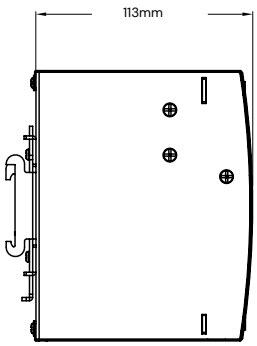
CERTIFICATIONS

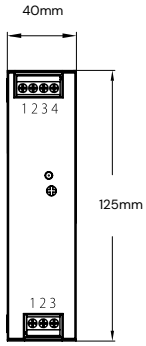
- Safety Standards: UL508, BS/EN62368-1
- Withstand Voltage: I/P–O/P: 3KVAC, I/P–FG: 2KVAC, O/P–FG: 0.5KVAC
- Isolation Resistance: I/P–O/P, I/P–FG, O/P–FG: >100M Ohms / 500VDC / 25°C / 70% RH
- EMC Emission: Compliance to BS EN/EN55032, BS EN/EN61000-3-2, -3
- EMC Immunity: Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN55035 BS EN/EN61000-6-2 (BS EN/EN50082-2)

N° file E231227

MECHANICAL SPECIFICATION

Parameter	Specification
Dimensions	125×40×113.5 mm
Mounting	DIN rail mount (TS35, EN 60715 compliant)
Enclosure	IP20-rated metal case
Terminal Block	3-pole input (L/N/FG), 4-pole output (+V/–V)
LED	Green (DC OK) [if equipped]
Weight	0.6 kg





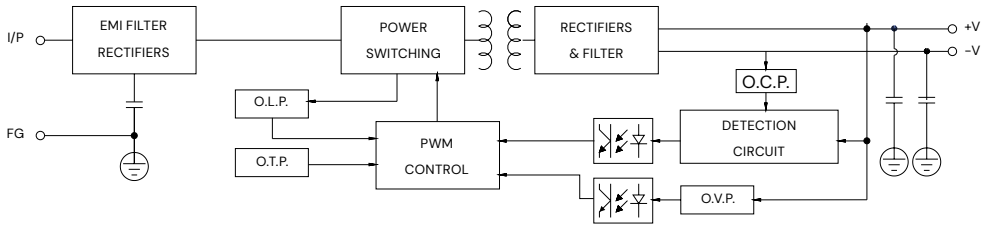
Input

No.	Description
1	FG ⏚
2	AC/N or DC –
3	AC/L or DC +

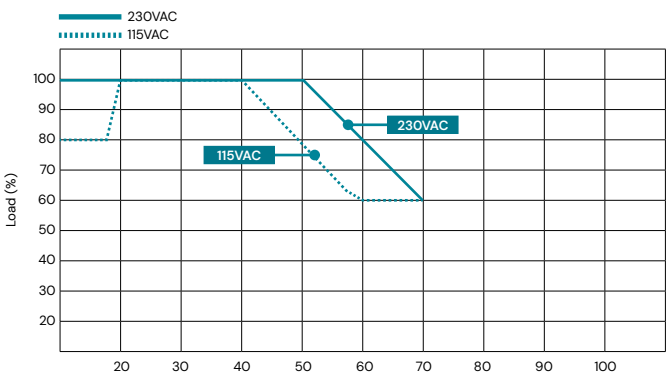
Output

No.	Description
1,2	DC OUTPUT –V
3,4	DC OUTPUT +V

BLOCK DIAGRAM



DERATING CURVE



MINUS OUTPUT AND INPUT VOLTAGE CURVES