

VPS Series

VPS1-240

DIN Rail Power Supply Series

The VERSCH VPS1-240 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
VPS1-2402410	24V	10A	240W	24V-28V	14V~17V	87.0%
VPS1-2404805	48V	5A	240W	48V-55V	29V~33V	88.0%

TECHNICAL SPECIFICATIONS

Parameter	Specification
Input Voltage Range	90-264VAC / 127-370VDC
Power Factor	>0.98/115VAC at full load, >0.95/230VAC at full load
AC current	2.5A / 115VAC, 1.3A / 230VAC
Inrush current	20A/115VAC, 35A/230VAC
Setup, Rise Time	1500ms / 100ms (115V / 60Hz full load) 3000ms / 100ms (230V / 50Hz full load)
Hold-up time	16ms (230V/50Hz full load), 12ms (115V/60Hz full load)
Working Temperature	-20°C to +70°C
MTBF	200,000 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



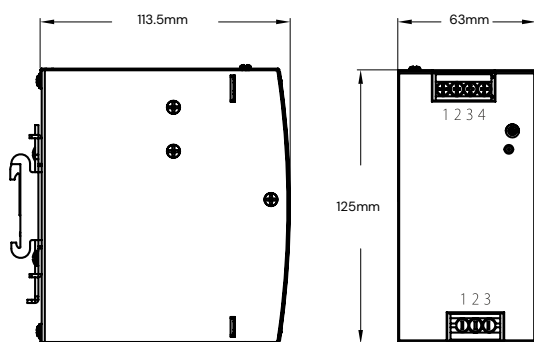
CERTIFICATIONS

- 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)



MECHANICAL SPECIFICATION

Parameter	Specification
Dimensions	125 × 63 × 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	1.0 kg



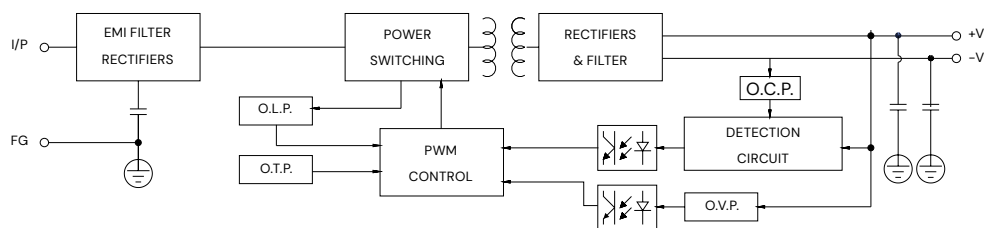
Input

No.	Description
1	FG ⊕
2	AC/N or DC -
3	AC/L or DC +

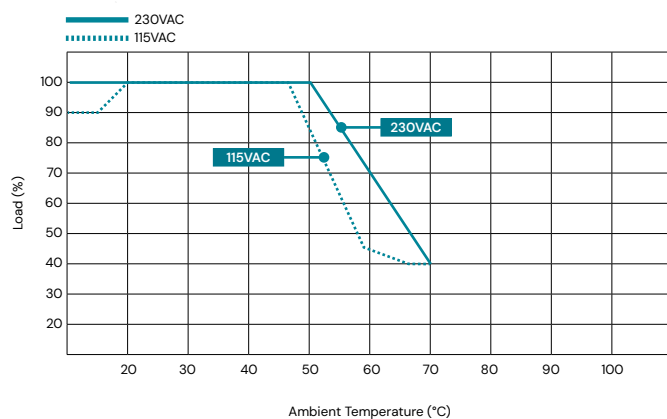
Output

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

BLOCK DIAGRAM



DERATING CURVE



MINUS OUTPUT AND INPUT VOLTAGE CURVES

