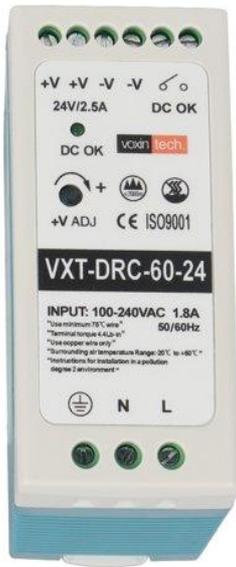


VXT-DRC-60-24

DIN Rail Mount Compact Industrial Power Supply

24V DC | 2.5A | 60W



Product Overview

The VXT-DRC-60-24 is a 60W single output compact DIN rail mount switching power supply with universal AC input (85-264VAC). Its ultra-compact form factor (40mm width) and flame-retardant housing make it ideal for space-constrained control panels and automation enclosures.

Key Features

- ✓ Universal AC input: 85-264VAC (47-63Hz)
- ✓ DC input capable (120-370VDC)
- ✓ High efficiency up to 88% (typical)
- ✓ Flame-retardant plastic housing
- ✓ Fanless operation: -20°C to +70°C
- ✓ Overload, overvoltage & short circuit protection
- ✓ 5G vibration resistance
- ✓ Output voltage adjustable via trim pot ($\pm 10\%$)
- ✓ DC OK LED indicator
- ✓ Ultra-compact: 40 x 90 x 100 mm
- ✓ DIN rail TS-35/7.5 or 15 mounting

Applications

Industrial Automation • PLC & Control Panels • Packaging Machinery • CNC Machines • Conveyor Systems • HMI & SCADA • Building Automation • LED Signage • Sensor Networks

Technical Specifications

OUTPUT	
DC Output Voltage	24V DC
Rated Output Current	2.5A
Rated Output Power	60W
Ripple & Noise (max)	< 200mV p-p
Voltage Accuracy	$\pm 1\%$
Output Voltage Adj. Range	$\pm 10\%$ (via trim pot)
Load Regulation	$\pm 1\%$
Line Regulation	$\pm 1\%$
INPUT	
Input Voltage Range	85 - 264VAC / 120 - 370VDC
Input Frequency	47 - 63 Hz
Input Current (typical)	< 1.8A @ 110VAC / < 1.0A @ 230VAC
Efficiency (typical)	> 88% @ 230VAC full load
Inrush Current	35A @ 110VAC / 70A @ 220VAC

Start Up Time	< 500ms @ 220VAC
PROTECTION	
Overload Protection	105% - 135% rated output, hiccup mode, auto recovery
Overvoltage Protection	> 135% rated output, shutdown, auto recovery
Short Circuit Protection	Output voltage drops to undervoltage point, output closes
ENVIRONMENT	
Operating Temperature	-20°C to +70°C
Operating Humidity	20% - 90% RH (non-condensing)
Storage Temperature	-40°C to +85°C
Storage Humidity	10% - 95% RH (non-condensing)
SAFETY & EMC	
Withstand Voltage	I/P - O/P: 3kVAC / I/P - FG: 2kVAC / O/P - FG: 0.5kVAC (1 minute)
Isolation Resistance	I/P - O/P, I/P - FG, O/P - FG: 500VDC / 100MΩ
Leakage Current	< 1mA @ 240VAC
Safety Standards	EN60950-1, EN60335-1, EN61558-1/-2-16, UL60950-1, GB4943
MECHANICAL	
Dimensions (L x W x H)	40 x 90 x 100 mm
Net Weight / Gross Weight	300g / 325g
Mounting	DIN Rail TS-35/7.5 or TS-35/15
Casing Material	Flame-retardant plastic housing (Pollution Degree 2)
Output Connections	Screw terminals (+V, +V, -V, -V)
Input Connections	Screw terminals (Earth, N, L)

Ordering Information

Model Number	Output	Power
VXT-DRC-60-24	24V DC / 2.5A	60W

Notes

1. All specifications are measured at 230VAC input, rated load, and 25°C ambient temperature unless otherwise noted.
2. Ripple & noise measured using 12" twisted pair with 0.1μF and 47μF capacitors in parallel at terminal, 20MHz bandwidth.
3. Starting time measured under cold start. Fast and frequent startup/shutdown may increase starting time.
4. When operating altitude is higher than 2000 meters, derate operating temperature by 5°C per 1000 meters.
5. Please contact Voxintech for latest specifications.

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