

VXT-DRE-75-24

DIN Rail Mount Industrial Power Supply

24V DC | 3.2A | 76.8W



Product Overview

The VXT-DRE-75-24 is a 76.8W single output DIN rail mount switching power supply with universal AC input (90-264VAC). The compact slim-width design (40mm) makes it ideal for space-constrained enclosures in industrial automation, control panels, and PLC systems.

Key Features

- ✓ Universal AC input: 90-264VAC (47-63Hz)
- ✓ DC input capable (127-370VDC)
- ✓ High efficiency up to 88% (typical)
- ✓ Metal mesh enclosure for heat dissipation
- ✓ Fanless operation: -10°C to +60°C
- ✓ Overload, overvoltage & short circuit protection
- ✓ Output voltage adjustable via trim pot ($\pm 10\%$)
- ✓ DC OK LED indicator
- ✓ DIN rail TS-35/7.5 or 15 mounting
- ✓ Compact slim design: 40 x 125 x 113 mm

Applications

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

Technical Specifications

OUTPUT	
DC Output Voltage	24V DC
Rated Output Current	3.2A
Rated Output Power	76.8W
Ripple & Noise (max)	< 120mV p-p
Voltage Accuracy	$\pm 1\%$
Output Voltage Adj. Range	$\pm 10\%$ (via trim pot)
Load Regulation	$\pm 1\%$
Line Regulation	$\pm 0.5\%$
INPUT	
Input Voltage Range	90 - 264VAC / 127 - 370VDC
Input Frequency	47 - 63 Hz
Input Current (typical)	< 1.45A @ 110VAC / < 0.9A @ 220VAC
Efficiency (typical)	> 88% @ 230VAC full load
Inrush Current	20A @ 110VAC / 35A @ 220VAC
Start Up Time	< 500ms @ 110VAC / < 500ms @ 220VAC

PROTECTION	
Overload Protection	105% - 150% rated output, constant current mode, auto recovery
Overvoltage Protection	> 135% rated output, output turned off, auto recovery
Short Circuit Protection	Output recovers automatically after fault removed
ENVIRONMENT	
Operating Temperature	-10°C to +60°C
Operating Humidity	20% - 90% RH (non-condensing)
Storage Temperature	-20°C to +85°C
Storage Humidity	10% - 95% RH (non-condensing)
SAFETY & EMC	
Withstand Voltage	I/P - O/P: 3kVAC / I/P - FG: 1.5kVAC / O/P - FG: 0.5kVAC (1 min)
Leakage Current	< 1mA @ 240VAC
Isolation Resistance	I/P - O/P, I/P - FG, O/P - FG: 500VDC / 100MΩ
Safety Standards	EN60950-1, EN60335-1, EN61558-1/-2-16, UL60950-1, GB4943
MECHANICAL	
Dimensions (L x W x H)	40 x 125 x 113 mm
Net Weight / Gross Weight	707g / 750g
Mounting	DIN Rail TS-35/7.5 or TS-35/15
Casing Material	Metal mesh enclosure (Pollution Degree 2)
Output Connections	Screw terminals (-V, +V)
Input Connections	Screw terminals (Earth, N, L)

Ordering Information

Model Number	Output	Power
VXT-DRE-75-24	24V DC / 3.2A	76.8W

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.

Voxintech | Industrial Automation Solutions

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