

# VXT-DRI-120-24

DIN Rail Type Switched Mode Power Supply  
**24VDC | 5A | 120W**



## Product Overview

The VXT-DRI-120-24 is a 120W single output enclosed DIN rail type switched mode power supply with universal AC input range from 85 to 264VAC. It delivers a reliable 24VDC output at 5A, making it ideal for industrial automation, packaging machinery, and control panel applications.

## Key Features

- Universal AC input: 85 ~ 264VAC
- Output: 24VDC / 5A / 120W
- High efficiency: > 88%
- Metal mesh enclosure for superior heat dissipation
- Built-in DC OK LED indicator
- Output voltage adjustable via potentiometer
- Overload, overvoltage & short circuit protection
- Operating temperature: -10°C to +60°C
- Fanless operation
- Compact DIN rail mounting (35mm)

## Applications

Packaging machinery, PLC & HMI panels, industrial automation, motion control systems, sensor & instrumentation power, LED lighting systems, CCTV & security systems, building automation.

## Technical Specifications

Category	Parameter	Specification
Output	DC Voltage	24VDC
	Rated Current	5A
	Rated Power	120W
	Ripple & Noise	< 120mV (peak-to-peak)
	Voltage Accuracy	±1%
	Voltage Adjustment Range	±10% (via potentiometer)
	Load Regulation	±1%
	Line Regulation	±0.5%
	Voltage Range	85 ~ 264VAC / 120 ~ 370VDC (47 ~ 63Hz)
	Efficiency (Typical)	> 88%
Input	Operating Current	< 2.25A @ 110VAC / < 1.3A @ 220VAC
	Inrush Current	20A @ 110VAC / 35A @ 220VAC
	Start-up Time	500ms (70ms, 32ms @ 110VAC) / 500ms (70ms, 36ms @ 220VAC)
	Leakage Current	< 1mA @ 240VAC
Protection	Overload Protection	105% ~ 150% rated load; hiccup mode, auto recovery
	Overvoltage Protection	> 135% rated voltage; auto shutdown, auto recovery
	Short Circuit Protection	Output shutdown; auto restart & recovery on fault removal
Environment	Operating Temp. & Humidity	-10°C to +60°C; 20% ~ 90% RH (non-condensing)
	Storage Temp. & Humidity	-20°C to +85°C; 10% ~ 95% RH
Safety / EMC	Withstand Voltage	I/P - O/P: 1.5kVAC; I/P - Case: 1.5kVAC; O/P - Case: 0.5kVAC (1 min)
	Isolation Resistance	I/P - O/P, I/P - Shell, O/P - Shell: 500VDC / 100MΩ
Mechanical	Dimensions (L x W x H)	40 x 125 x 113 mm
	Weight (Net / Gross)	707g / 750g
	Mounting	35mm DIN Rail (TS-35/7.5 or TS-35/15)

## Ordering Information

Model Number	Output	Description
VXT-DRI-120-24	24VDC / 5A / 120W	DIN Rail SMPS, 120W, 24V

## Notes

- Ripple & noise measured using 12" twisted pair with 0.1μF and 47μF capacitors in parallel at terminal, 20MHz bandwidth.
- Efficiency tested at 230VAC input, rated load, 25°C ambient temperature.
- Start-up time measured under cold start conditions. Frequent start/stop may increase start-up time.
- For operating altitudes above 2000m, derate ambient temperature by 5°C per 1000m.
- Use copper wire only. Maximum surrounding air temperature: 50°C. Terminal torque: 9 Lb-in.