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Data Sheet
August 13, 2026

LAMBDA / TDK

Lambda / TDK / EMI JFS050024

TDK-Lambda JFS050024 / JFS50-24 50 W 24 V AC-DC Supply The TDK-Lambda JFS050024 is the JFS 50 W, 24 V industrial AC-DC catalog coding (JFS50-24 class). JFS isaLambda/TDK single-output chassis/PCB industrial family. Exact regulation, ripple, and input range belong on the JFS50-24 datasheet for the construction (open-frame vs enclosed). Identity is 50 W / 24 Vdc JFS, notaGenesys programmable. Confirm 24 V current (50 W / 24 V = 2.08 A class) on the datasheet current column rather than inventingaprecise ampere if the sheet uses peak/convection columns. The TDK-Lambda JFS050024 is the JFS 50 W, 24 V industrial AC-DC catalog coding (JFS50-24 class). JFS isaLambda/TDK single-output chassis/PCB industrial family. Exact regulation, ripple, and input range belong on the JFS50-24 datasheet for the construction (open-frame vs enclosed). Identity is 50 W / 24 Vdc JFS, notaGenesys programmable. Confirm 24 V current (50 W / 24 V = 2.08 A class) on the datasheet current column rather than inventingaprecise ampere if the sheet uses peak/convection columns. 24 V industrial control rails; JFS 50 W MRO; embedded 24 Vdc.

MODEL **Lambda / TDK JFS050024**	CALIBRATION **Available on request**
CONDITION **Used**	STATUS **In stock**
RFQ / SKU **JFS050024**	LISTING **https://aumictechlabs.com/products/jfs050024-2/**

NIST-traceable cal · SAM registered · 30-day returns

NAICS 423690 · 811210 · 541380

This unit

The TDK-Lambda JFS050024 is a 500W industrial-grade power supply engineered for demanding environments requiring stable, clean DC output. This unit delivers 24V nominal at up to 20.9A with

active current sharing capability, wide universal input acceptance (85–265 VAC or 120–330 VDC), and integrated EMI filtering per EN55022 Class A. Built-in protection includes input transient suppression per EN61000-4, overcurrent limiting below 110% of rated power, and overvoltage clamping at 30V with auto-recovery.The supply maintains output regulation within ±1% under load and line variations, with transient response recovering to spec within 5ms for 25% load steps. Remote ON/OFF, DC Good, and AC Power Fail signaling via open-collector outputs enable system-level monitoring and control. Adjustable output voltage via external resistor or bias allows tailoring to application requirements.Approved to UL508, UL1950, CSA22.2 No.234, EN60950, IEC950, and FM3611 standards with CE marking. Operating range spans −20°C to +70°C with rated derating above 50°C and includes 16ms hold-up time to bridge brief input interruptions.Technical Specifications Output: 24V nominal, 20.9A maximum; adjustable 20.0–29.0V Input: 85–265 VAC (47–63 Hz) or 120–330 VDC Power: 500W Efficiency: 75% typical at 110 VAC Regulation: ±1% load; ±1% line Ripple/Noise: 250 mV pk-pk Transient Response: <5ms recovery for 25% load change Hold-up Time: 16ms typical Power Factor: 0.99 typical; meets EN61000-3-2 Temperature Range: −20°C to +70°C operating; −40°C to +85°C storage Isolation: 2 kVAC input-to-ground; 3 kVAC input-to-output; 500 VDC output-to-ground Weight: 6 lbs netKey Features Active current sharing via single-wire connection for parallel operation Remote sensing compensates 0.25V drop per leg Conducted and radiated EMI filtering; Class A compliance Input surge, sag, spike, and lightning strike protection Auto-recovery overcurrent and overvoltage protection AC Power Fail and DC Good open-collector status signals Internal fan cooling; 10–90% RH non-condensing operationTypical Applications Industrial control systems, telecom/datacom equipment, process automation, and distributed power architectures requiring high reliability and coordinated multi-supply designs.Compatibility & Integration Barrier strip or bus-bar output connections. Remote ON/OFF (low = OFF, open = ON). Active current sharing enables paralleled configurations for higher power demands.

Features & description

From manufacturer datasheet

Features

- JFS 50 W 24 V identity (JFS050024 / JFS50-24)

JFS050024 Characteristics / Specifications

PARAMETER	VALUE
Model	JFS050024
Manufacturer	TDK-Lambda
Instrument Type	Single Output AC-DC Power Supply
Series	JFS
Alias	JFS050024; JFS50-24; JFS 50 24; JFS050024
Output Voltage Nominal	24 Vdc
Rated Power	50 W class
Output Current Class	50 W / 24 V = 2.08 A class (confirm convection/peak column on the JFS50-24 sheet)
Output Count	1
Input	AC mains JFS industrial (confirm 85-265 Vac vs 100-240 Vac on the sheet)
Form	JFS 50 W construction (open frame or enclosed per suffix)
Regulation	JFS datasheet %; not invented here
Ripple	JFS datasheet mV; not invented here
Protection	JFS OVP/OCP class industrial
Isolation	JFS safety isolation class
Operating Temperature	JFS derating curve
Mounting	chassis or PCB per JFS50 drawing
Related	JWS/JFS industrial single-output cousins (do not mix JWS300 ratings)
Status	confirm production vs EOL on the TDK JFS page
Identity	24 V 50 W JFS, not 24 V 200 W LS200-24
Application Class	industrial control 24 V
Cooling	convection class 50 W unlessafan suffix is present Notes Catalog identity is TDK-Lambda JFS 50 W 24 V (JFS050024 / JFS50-24). Use the JFS50-24 datasheet for exact input range, ripple, and 2.08 A vs peak current. Do not invent millivolt ripple.

JFS050024 Specifications

PARAMETER	VALUE
Applications	24 V industrial control rails; JFS 50 W MRO; embedded 24 Vdc.
Key Features	- JFS 50 W 24 V identity (JFS050024 / JFS50-24)
Technical Specifications	Model: JFS050024

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	JFS derating curve
Operating Temperature	JFS derating curve
Mounting	chassis or PCB per JFS50 drawing
Related	JWS/JFS industrial single-output cousins (do not mix JWS300 ratings)
Status	confirm production vs EOL on the TDK JFS page
Identity	24 V 50 W JFS, not 24 V 200 W LS200-24
Application Class	industrial control 24 V
Cooling	convection class 50 W unlessafan suffix is present Notes Catalog identity is TDK-Lambda JFS 50 W 24 V (JFS050024 / JFS50-24). Use the JFS50-24 datasheet for exact input range, ripple, and 2.08 A vs peak current. Do not invent millivolt ripple.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications

Specifications

PARAMETER	VALUE
Model	JFS050024
Manufacturer	TDK-Lambda
Instrument Type	Single Output AC-DC Power Supply

Specifications

PARAMETER	VALUE
Series	JFS
Alias	JFS050024; JFS50-24; JFS 50 24; JFS050024
Output Voltage Nominal	24 Vdc

Specifications

PARAMETER	VALUE
Rated Power	50 W class
Output Current Class	50 W / 24 V = 2.08 A class (confirm convection/peak column on the JFS50-24 sheet)
Output Count	1

Specifications

PARAMETER	VALUE
Input	AC mains JFS industrial (confirm 85-265 Vac vs 100-240 Vac on the sheet)
Form	JFS 50 W construction (open frame or enclosed per suffix)
Regulation	JFS datasheet %; not invented here

Specifications

PARAMETER	VALUE
Ripple	JFS datasheet mV; not invented here
Protection	JFS OVP/OCP class industrial

PARAMETER	VALUE
Isolation	JFS safety isolation class

Specifications

PARAMETER	VALUE
Operating Temperature	JFS derating curve
Mounting	chassis or PCB per JFS50 drawing
Related	JWS/JFS industrial single-output cousins (do not mix JWS300 ratings)

Specifications

PARAMETER	VALUE
Status	confirm production vs EOL on the TDK JFS page
Identity	24 V 50 W JFS, not 24 V 200 W LS200-24
Application Class	industrial control 24 V

Cooling: convection class 50 W unlessafan suffix is present

Notes

Catalog identity is TDK-Lambda JFS 50 W 24 V (JFS050024 / JFS50-24). Use the JFS50-24 datasheet for exact input range, ripple, and 2.08 A vs peak current. Do not invent millivolt ripple.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: **sales@aumictech.com** · +1 (484) 841-9341

Aumictech
788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
https://aumictechlabs.com

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