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Data Sheet

August 2, 2026

ASTRODYNE / RO

Astrodyne / RO MK320S-24 Compact 300 Watt Enclosed Switching Power Supply

Astrodyne / RO MK320S-24 Compact 300 Watt Enclosed Switching Power Supply The Astrodyne TDI MK320S-24 (MK320S24) is a compact enclosed single-output switching power supply in the MK320S series, delivering 24 VDC at up to 12.5 A for 300 W output. Auto-ranging universal input is 100–264 VAC (90–264 VAC class on distributor listings) at 47–63 Hz. The enclosed chassis measures about 7 × 4 × 2 inches with convection cooling, efficiency about 85% typical, and 4242 VDC input-to-output isolation. Built-in EMI filter, short-circuit protection, and overvoltage protection with auto-recovery are included. UL60950-1 2nd edition class approvals for ITE applications. Single 24 V output only—other MK320S suffixes provide 5 V, 12 V, and 15 V. The Astrodyne TDI MK320S-24 (MK320S24) is a compact enclosed single-output switching power supply in the MK320S series, delivering 24 VDC at up to 12.5 A for 300 W output. Auto-ranging universal input is 100–264 VAC (90–264 VAC class on distributor listings) at 47–63 Hz. The enclosed chassis measures about 7 × 4 × 2 inches with convection cooling, efficiency about 85% typical, and 4242 VDC input-to-output isolation. Built-in EMI filter, short-circuit protection, and overvoltage protection with auto-recovery are included. UL60950-1 2nd edition class approvals for ITE applications. Single 24 V output only—other MK320S suffixes provide 5 V, 12 V, and 15 V. ITE a



MODEL

**Astrodyne / RO
MK320S-24**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

MK320S-24

LISTING

<https://aumictechlabs.com/products/mk320s-24-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Astrodyne / RO MK320S-24 is a compact, enclosed switching power supply delivering 300 watts of regulated 24 VDC output at 12.5 A. Purpose-built for ITE applications, this unit combines a small 7" × 4" × 2" footprint with universal AC input compatibility and 85% efficiency to minimize thermal load in space-constrained installations. Technical Specifications Output: 24 VDC, 12.5 A (300 W) Input Voltage: 88–264 VAC (universal auto-range) Input Frequency: 47–63 Hz Efficiency: 85% Isolation: 3000 V Ripple/Noise: 100 mV peak-to-peak (24 VDC output, typical) Inrush Current: 20 A at 100 VAC; 40 A at 200 VAC (typical) Operating Temperature: –10°C to +60°C Key Features Compact enclosed chassis mount design fits confined spaces Auto-ranging universal input accepts 88–264 VAC without manual configuration Built-in EMI filtering minimizes conducted and radiated interference Convection cooling requires no forced air Regulated output maintains stable voltage under load variation Low ripple (100 mV p-p) supports noise-sensitive circuits Physical & Safety Dimensions: 178 mm × 102 mm × 51 mm Weight: 1.35 lbs (0.61 kg) UL60950-1 2nd edition compliance Typical Applications Information Technology Equipment (ITE) requiring compact, efficient DC power conversion from global AC mains. Suitable for industrial controllers, distributed power systems, and embedded compute platforms where space and thermal efficiency are critical.

Features & description

From manufacturer datasheet

Features

- Enclosed switching PSU; single 24 VDC output • 300 W; 12.5 A max at 24 V • Auto-ranging input 100–264 VAC (universal) • Compact about 7 × 4 × 2 in enclosed package • 4242 VDC isolation; built-in EMI filter • About 85% efficiency typical • Short-circuit and OVP with auto-recovery • Operating -10°C to +60°C (derating above 50°C) • UL60950-1 2nd ed. class; ITE application • Related: MK320S-5, MK320S-12, MK320S-15

MK320S Characteristics / Specifications

PARAMETER	VALUE
Model	MK320S-24 (MK320S24)
Manufacturer	Astrodyne TDI / RO (Astrodyne)
Instrument Type	Enclosed AC-DC single-output switching power supply
Series	MK320S (300 W)
Input Voltage	100–132 / 176–264 VAC auto select (90–264 VAC class)
Input Frequency	47–63 Hz
Output	24 VDC @ 12.5 A max
Power	300 W
Ripple/Noise	about 100 mV pp typical at 24 V
Load Regulation	about ±0.5% nominal
Line Regulation	about ±0.5% nominal
Isolation	4242 VDC input-output
Efficiency	about 85% typical
Operating Temperature	-10°C to +60°C (derate per curve)
Storage Temperature	-25°C to +70°C
Size	about 7.00 × 4.00 × 2.00 in (177.8 × 101.6 × 50.8 mm)
Weight	about 1.95 lb (880 g)
Approvals	UL60950-1 2nd ed.; CSA C22.2; IEC60950-1 CB class
Cooling	Convection Standard Operating Conditions Observe output derating above 50°C ambient. Mount in enclosed chassis with adequate ventilation. Verify ground bonding for ITE installations. Operational Notes MK320S-24 is single 24 V output only—do not confuse with MK320S-12 or MK320S-15 siblings. Adjustable output trim available within OEM tolerance band; confirm nameplate before substituting in 24 V-only designs.
Related	MK320S-5, MK320S-12, MK320S-15

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	25°C to +70°C
Operating temperature	10°C to +60°C (derate per curve)
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Size	about 7.00 × 4.00 × 2.00 in (177.8 × 101.6 × 50.8 mm)
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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	
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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

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<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.