

**Aumictech**

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 13, 2026

ROCKWELL / ALLEN-BRADLEY

Rockwell / Allen-Bradley 1746-P4 SLC 500 Power Supply

Key Features - 10.0 A at 5 Vdc and 2.88 A at 24 Vdc backplane - 1 A isolated 24 Vdc user output - 85-132 / 170-265 Vac, 47-63 Hz - 70 W maximum; 240 VA typical line Technical Specifications Model: 1746-P4 Manufacturer: Allen-Bradley / Rockwell Automation Instrument Type: SLC 500 Rack Power Supply Series: 1746 SLC 500 Alias: 1746-P4; 1746P4; SLC P4 UPC: 662468409582 Input Voltage: 85-132 Vac or 170-265 Vac Input Frequency: 47 to 63 Hz Typical Line Power: 240 VA Inrush Current: 45 A Internal Current 5 V: 10.0 A at 5 Vdc Internal Current 24 V: 2.88 A at 24 Vdc User 24 V Current: 1 A User 24 V Range: 20.4 to 27.



MODEL

Rockwell / Allen-Bradley 1746-P4

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

1746-P4

LISTING

<https://aumictechlabs.com/products/1746-p4-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Rockwell / Allen-Bradley 1746-P4 is a power supply module for SLC 500 programmable logic controller systems. It converts AC line power to regulated DC outputs that energize the SLC 500 backplane, enabling processor and I/O module operation. Designed for Class 1, Division 2 hazardous locations, this chassis-mount unit delivers stable power in industrial control environments and supports interconnection of up to three modular chassis. Technical Specifications Input & Power Delivery Input voltage: 85-132V AC or 170-265V AC, 47-63 Hz

(jumper-selectable) Input frequency: 47–63 Hz Typical line power requirement: 150 VA Maximum inrush current: 45 A Total output power: 70 W maximum Backplane output: 5.1 VDC at 10.0 A, plus 24 VDC at 2.88 A User power output: 1.0 A at 24 VDC (20.4–27.6V DC range) Maximum user-supplied overcurrent protection: 15 A CPU hold-up time: 20 ms at full load; 3000 ms at no load Input-to-backplane isolation: 2600V DC for 1 second Fuse protection: Soldered-in, non-replaceable internal fuse Environmental & Physical Operating temperature: 0°C to 60°C (no derating) Storage temperature: –40°C to 85°C Relative humidity: 5% to 95%, non-condensing Altitude: Up to 2000 m above sea level Pollution degree: 2 Dimensions: 140 mm H × 110 mm W × 145 mm D Weight: 1.4 kg

Key Features Dual-range AC input with jumper selection for 120V or 240V operation solid isolation rating for industrial noise immunity Integrated backplane and auxiliary power delivery in single module Non-replaceable fused design minimizes maintenance points Compact form factor fits standard SLC 500 chassis slots

Compatibility & Integration Designed specifically for SLC 500 modular chassis architecture. Supports interconnection of up to three chassis in distributed control configurations. UL Listed and CSA Certified for Class 1, Division 2, Groups A, B, C, D hazardous locations. CE Marked and C-Tick compliant. Lifecycle status: Discontinued as of September 30, 2024.

Features & description

From manufacturer datasheet

Features

- 10.0 A at 5 Vdc and 2.88 A at 24 Vdc backplane

1746P4 Characteristics / Specifications

PARAMETER	VALUE
Model	1746-P4
Manufacturer	Allen-Bradley / Rockwell Automation
Instrument Type	SLC 500 Rack Power Supply
Series	1746 SLC 500
Alias	1746-P4; 1746P4; SLC P4
UPC	662468409582
Input Voltage	85-132 Vac or 170-265 Vac
Input Frequency	47 to 63 Hz
Typical Line Power	240 VA
Inrush Current	45 A
Internal Current 5 V	10.0 A at 5 Vdc
Internal Current 24 V	2.88 A at 24 Vdc
User 24 V Current	1 A
User 24 V Range	20.4 to 27.6 Vdc
Maximum Output Power	70 W
User Overcurrent Protection	15 A maximum user-supplied
Fuse	soldered in place (not 1746-F1 field replaceable)
CPU Hold Up Full Load	20 ms
CPU Hold Up No Load	3000 ms
Isolation	2600 Vdc for 1 s
Operating Temperature	0 to 60 C (32 to 140 F), no derating
Depth	145 mm (5.70 in)
Mounting	left-side chassis mount, does not occupy a slot
Compatible Chassis	SLC 500 1746-A4/A7/A10/A13 class
Certification	UL Listed Industrial Control Equipment; Class I Division 2 path on 1746 power sheets

PARAMETER	VALUE
Lifecycle	discontinued 30 September 2024; no planned Rockwell replacement
Compared P	1746-P1 is 2 A at 5 V / 0.46 A at 24 V, 135 VA, replaceable 1746-F1
LED	power status indicators
Country Of Origin Listing	Mexico on some RA pages
Warranty Listing	1 year standard RA Notes Specs from Rockwell 1746-P1/P2/P3/P4 power supply specification table and 1746-P4 product page. Confirm 120 vs 240 Vac jumper and soldered fuse condition.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	0 to 60 C (32 to 140 F), no derating
Operating Temperature	0 to 60 C (32 to 140 F), no derating
Depth	145 mm (5.70 in)
Mounting	left-side chassis mount, does not occupy slot
Compatible Chassis	SLC 500 1746-A4/A7/A10/A13 class
Certification	UL Listed Industrial Control Equipment; Class I Division 2 path on 1746 power sheets
Lifecycle	discontinued 30 September 2024; no planned Rockwell replacement
Compared P	1746-P1 is 2 A at 5 V / 0.46 A at 24 V, 135 VA, replaceable 1746-F1
LED	power status indicators
Country Of Origin Listing	Mexico on some RA pages
Warranty Listing	1 year standard RA Notes Specs from Rockwell 1746-P1/P2/P3/P4 power supply specification table and 1746-P4 product page. Confirm 120 vs 240 Vac jumper and soldered fuse condition.

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	1746-P4
Manufacturer	Allen-Bradley / Rockwell Automation
Instrument Type	SLC 500 Rack Power Supply
Specifications	
PARAMETER	VALUE
Series	1746 SLC 500
Alias	1746-P4; 1746P4; SLC P4
UPC	662468409582
Specifications	
PARAMETER	VALUE
Input Voltage	85-132 Vac or 170-265 Vac
Input Frequency	47 to 63 Hz
Typical Line Power	240 VA
Specifications	
PARAMETER	VALUE
Inrush Current	45 A
Internal Current 5 V	10.0 A at 5 Vdc
Internal Current 24 V	2.88 A at 24 Vdc
Specifications	
PARAMETER	VALUE
User 24 V Current	1 A
User 24 V Range	20.4 to 27.6 Vdc
Maximum Output Power	70 W

Specifications

PARAMETER	VALUE
User Overcurrent Protection	15 A maximum user-supplied
Fuse	soldered in place (not 1746-F1 field replaceable)
CPU Hold Up Full Load	20 ms

Specifications

PARAMETER	VALUE
CPU Hold Up No Load	3000 ms
Isolation	2600 Vdc for 1 s
Operating Temperature	0 to 60 C (32 to 140 F), no derating

Specifications

PARAMETER	VALUE
Depth	145 mm (5.70 in)
Mounting	left-side chassis mount, does not occupy a slot
Compatible Chassis	SLC 500 1746-A4/A7/A10/A13 class

Specifications

PARAMETER	VALUE
Certification	UL Listed Industrial Control Equipment; Class I Division 2 path on 1746 power sheets
Lifecycle	discontinued 30 September 2024; no planned Rockwell replacement
Compared P1	1746-P1 is 2 A at 5 V / 0.46 A at 24 V, 135 VA, replaceable 1746-F1

Specifications

PARAMETER	VALUE
Compared P2	1746-P2 is 5 A at 5 V / 0.96 A at 24 V
LED	power status indicators
Country Of Origin Listing	Mexico on some RA pages

Warranty Listing: 1 year standard RA

Notes

Specs from Rockwell 1746-P1/P2/P3/P4 power supply specification table and 1746-P4 product page. Confirm 120 vs 240 Vac jumper and soldered fuse condition.

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>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 13, 2026

Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.