

**Aumictech**

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 13, 2026

ROCKWELL / ALLEN-BRADLEY

Rockwell / Allen-Bradley 1746-P2 SLC 500 Power Supply

Key Features 5.0 A at 5 Vdc and 0.96 A at 24 Vdc backplane 200 mA isolated 24 Vdc user output 85-132 / 170-265 Vac, 47-63 Hz 180 VA typical; 20 A inrush; 1746-F2 fuse Technical Specifications Model: 1746-P2 Manufacturer: Allen-Bradley / Rockwell Automation Instrument Type: SLC 500 Rack Power Supply Series: 1746 SLC 500 Alias: 1746-P2; 1746P2; SLC P2 UPC: 662468088329 Input Voltage: 85-132 Vac or 170-265 Vac Input Frequency: 47 to 63 Hz Typical Line Power: 180 VA Inrush Current: 20 A Internal Current 5 V: 5.0 A at 5 Vdc Internal Current 24 V: 0.



MODEL

Rockwell / Allen-Bradley 1746-P2

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

1746-P2

LISTING

<https://aumictechlabs.com/products/1746-p2-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Rockwell Allen-Bradley 1746-P2 is a chassis-mount power supply for SLC 500 programmable logic controller systems. It delivers regulated 5 VDC and 24 VDC outputs to backplane modules and accepts user-supplied 24 VDC input, with integrated status LEDs for operational indication. The unit mounts directly within a 1746 SLC 500 chassis and maintains CPU operation during brief power interruptions through integrated hold-up circuitry. Technical Specifications Input Power Input voltage: 85–132 VAC or 170–265 VAC (selectable via jumper) Nominal input: 120/220 VAC

Input frequency: 47–63 Hz Typical line power: 180 VA Maximum inrush current: 20 A Output Power 5 VDC backplane output: 5 A 24 VDC backplane output: 0.96 A User-supplied 24 VDC input: 18–30 VDC range, 200 mA capacity Total output power limit: 70 W (combined across all outputs) Maximum user-supplied overcurrent protection: 15 A Electrical Protection Input/backplane isolation: 1800 V AC RMS for 1 second Fuse protection: 250 V, 3 A (e.g., BUSSMANN AGC 3) CPU hold-up time: 20 ms to 3 seconds (load dependent) Physical & Environmental Dimensions: 74 × 140 × 145 mm (5.5 × 2.9 × 5.7 inches) Weight: 1.1 kg (2.5 lbs) Operating temperature: 0°C to 60°C Storage temperature: –40°C to 85°C Relative humidity: Maximum 95% RH (non-condensing) Key Features Dual input voltage selection via jumper terminal Open-style design for 1746 chassis integration Status LED indication for power and fault monitoring Integrated hold-up circuitry maintains operation during transient power loss Short-circuit and overcurrent fuse protection Isolated user 24 VDC power input with independent current limiting Compatibility & Integration The 1746-P2 is designed exclusively for installation in a 1746 SLC 500 chassis. It meets CCC, CE, GOST, KC, and MARINE standards. For Series C and later modules, monitoring the 24 VDC user output with a dedicated 24 VDC input channel is recommended to prevent unexpected operation during user power shutdown.

1746P2 Characteristics / Specifications

PARAMETER	VALUE
Model	1746-P2
Manufacturer	Allen-Bradley / Rockwell Automation
Instrument Type	SLC 500 Rack Power Supply
Series	1746 SLC 500
Alias	1746-P2; 1746P2; SLC P2
UPC	662468088329
Input Voltage	85-132 Vac or 170-265 Vac
Input Frequency	47 to 63 Hz
Typical Line Power	180 VA
Inrush Current	20 A
Internal Current 5 V	5.0 A at 5 Vdc
Internal Current 24 V	0.96 A at 24 Vdc
User 24 V Current	200 mA
User 24 V Range	18 to 30 Vdc
Maximum Output Power	70 W class
Fuse	1746-F2 or equivalent (field replaceable)
CPU Hold Up Full Load	20 ms
CPU Hold Up No Load	3000 ms
Isolation	1800 Vac RMS for 1 s
Operating Temperature	0 to 60 C (32 to 140 F)
Derating	current capacity derated 5 percent above 55 C
Depth	140 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

PARAMETER	VALUE
Lifecycle	discontinued 30 September 2024; no planned Rockwell replacement
Compared P	1746-P4 is 10 A at 5 V / 2.88 A at 24 V, 240 VA, soldered fuse
User Overcurrent Protection	15 A maximum user-supplied
Country Of Origin Listing	Malaysia 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-P2 product page. Confirm 120 vs 240 Vac jumper and 1746-F2 fuse condition.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	0 to 60 C (32 to 140 F)
Operating Temperature	0 to 60 C (32 to 140 F)
Derating	current capacity derated 5 percent above 55 C
Depth	140 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-P4 is 10 A at 5 V / 2.88 A at 24 V, 240 VA, soldered fuse
User Overcurrent Protection	15 A maximum user-supplied
Country Of Origin Listing	Malaysia 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-P2 product page. Confirm 120 vs 240 Vac jumper and 1746-F2 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-P2
Manufacturer	Allen-Bradley / Rockwell Automation
Instrument Type	SLC 500 Rack Power Supply
Specifications	
PARAMETER	VALUE
Series	1746 SLC 500
Alias	1746-P2; 1746P2; SLC P2
UPC	662468088329
Specifications	
PARAMETER	VALUE
Input Voltage	85-132 Vac or 170-265 Vac
Input Frequency	47 to 63 Hz
Typical Line Power	180 VA
Specifications	
PARAMETER	VALUE
Inrush Current	20 A
Internal Current 5 V	5.0 A at 5 Vdc
Internal Current 24 V	0.96 A at 24 Vdc
Specifications	
PARAMETER	VALUE
User 24 V Current	200 mA
User 24 V Range	18 to 30 Vdc
Maximum Output Power	70 W class

Specifications

PARAMETER	VALUE
Fuse	1746-F2 or equivalent (field replaceable)
CPU Hold Up Full Load	20 ms
CPU Hold Up No Load	3000 ms

Specifications

PARAMETER	VALUE
Isolation	1800 Vac RMS for 1 s
Operating Temperature	0 to 60 C (32 to 140 F)
Derating	current capacity derated 5 percent above 55 C

Specifications

PARAMETER	VALUE
Depth	140 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, 1746-F1

Specifications

PARAMETER	VALUE
Compared P4	1746-P4 is 10 A at 5 V / 2.88 A at 24 V, 240 VA, soldered fuse
User Overcurrent Protection	15 A maximum user-supplied
Country Of Origin Listing	Malaysia 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-P2 product page. Confirm 120 vs 240 Vac jumper and 1746-F2 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.