

Allen-Bradley — SLC 500

1746-A4

SLC 500 4-Slot Modular Chassis

Verified product identity

Allen-Bradley 1746-A4 is a four-slot SLC 500 modular chassis that houses a compatible processor, I/O modules and power supply for compact control stations.

Verified specifications

Manufacturer	Allen-Bradley
Catalog number	1746-A4
Product family	SLC 500
Product type	4-slot modular hardware chassis
Module slots	4
Hardware style	Modular
Cooling method	Convection
Operating temperature	0 to 60°C
Dimensions	17.7 × 17.1 × 14.5 cm
Weight	0.75 kg
Maximum backplane current	5.1 V DC at 10 A; 24 V DC at 2.88 A

APTER POWER

1746-A4

Additional verified specifications

Mounting type	Panel mount
Storage temperature	-40 to +85°C
Relative humidity	5 to 95%, non-condensing
Installation instructions	1746-IN016

Selection and installation guidance

- Provides four SLC 500 module positions
- Uses a modular SLC 500 power-supply and I/O architecture
- Requires enclosure sizing from the completed chassis configuration

Buyer questions

Q1. Can Allen-Bradley 1746-A4 accept any SLC 500 module in any slot?

No. The processor, communication adapter and I/O modules must be supported and installed in the slot order declared by the controller project.

Q2. Which power supply should be selected for Allen-Bradley 1746-A4?

Choose a compatible 1746 modular supply only after calculating the 5 V and 24 V backplane demand of every installed module.

Q3. Can Allen-Bradley 1746-A4 replace a larger SLC 500 chassis without project changes?

Not automatically. The four-slot limit can change module order, I/O addressing and supply loading, so the project and wiring must be redesigned and verified.

Q4. Why can modules in Allen-Bradley 1746-A4 remain inactive after a chassis replacement?

Inspect the backplane connectors, power-supply seating, processor slot, module keying and the physical slot order against the saved project.

Q5. What enclosure checks matter before installing Allen-Bradley 1746-A4?

Confirm the completed station fits the minimum enclosure space, has the required convection clearance, protective earth and cable-bend room.

Q6. What should be documented before replacing Allen-Bradley 1746-A4?

Record the chassis catalog number, installed power supply, every module and slot, wiring labels, grounding and the verified SLC project backup.

Q7. How should Allen-Bradley 1746-A4 be validated after installation?

Verify the supply rails, module recognition, slot addressing, I/O operation and controller diagnostics before running a controlled machine cycle.

Evidence boundary

The dimensions and approximate weight are documented for the complete 1746-A4 chassis without installed modules. Installed modules and the side-mounted power supply must be evaluated separately.