



1746-P5

Allen-Bradley SLC 500 DC Power Supply

Product scope

- The exact order identity fixes line voltage at 90-146 V DC within the Allen-Bradley SLC 500 platform.
- The hardware path is defined by high-voltage DC line input, chassis backplane connector and the documented supply terminals.
- Its intended duty is SLC 500 control panels where a DC-fed chassis requires the P5 current capacity.
- an SLC 500 chassis power supply accepting 90-146 V DC and delivering the internal 5 V and 24 V backplane rails

Official source basis

https://configurator.rockwellautomation.com/api/Doc/1746_power_spec.pdf

Technical facts are limited to the identified manufacturer documentation and the exact ordering configuration shown above.

Request a fast quote	Product reference	
Email: info@apterpower.com Phone: +86 18106909650 apter.com/inquiry.php	Allen-Bradley 1746-P5	

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1746-P5 technical profile

Allen-Bradley 1746-P5 is the documented chassis power supply in the Allen-Bradley SLC 500 family. Powering its exact configuration, line voltage is 90-146 V DC, while typical line power is 85 VA.

Within the installed architecture, the unit powers the processor and I/O modules installed in a compatible modular SLC 500 chassis. Its documented interface arrangement—high-voltage DC line input, chassis backplane connector and the documented supply terminals—defines where it fits in SLC 500 control panels where a DC-fed chassis requires the P5 current capacity.

Recommissioning depends on a confirmed match for chassis, total 5 V/24 V backplane load, line-voltage range, grounding, wiring and inrush capability. The internal fuse is soldered in place; disconnect line power and calculate the complete chassis load before replacement

Selection notice

Calculate the complete 1746-P5 backplane load before replacement; its internal fuse is soldered and is not a field-service item.

Technical specifications

Line voltage	90-146 V DC
Typical line power	85 VA
Maximum inrush	20 A
Backplane 5 V capacity	5 A
Backplane 24 V capacity	0.96 A
Fuse construction	Soldered in place
Operating temperature	0 to 60 °C
Derating threshold	Above 55 °C
Derating rate	5% current capacity
Hazardous-location listing	Class I Division 2 groups A-D
Chassis platform	SLC 500 modular
Supply position	Left end of chassis
Load calculation	5 V and 24 V totals required
Installation state	Line power disconnected

Application and integration notes

Diagnostics	• In service, the assembly powers the processor and I/O modules installed in a compatible modular SLC 500 chassis. • The documented typical line power is 85 VA, providing a reference for post-installation checks. • Acceptance requires a functional test in SLC 500 control panels where a DC-fed chassis requires the P5 current capacity, not merely a clear hardware indication.
Supply Safety	• Isolation for this chassis power supply must cover every applicable energy source, field circuit and stored-charge path before removal. • The internal fuse is soldered in place; disconnect line power and calculate the complete chassis load before replacement • Grounding, interlocks and fail-safe behavior must be proven in SLC 500 control panels where a DC-fed chassis requires the P5 current capacity before normal operation resumes.
Power Distribution	• Mechanical placement and field transfer must follow the connector or terminal arrangement defined by high-voltage DC line input, chassis backplane connector and the documented supply terminals. • Integration records must confirm chassis, total 5 V/24 V backplane load, line-voltage range, grounding, wiring and inrush capability before conductors, backplane resources or accessories are reassigned. • A point-to-point check is required in SLC 500 control panels where a DC-fed chassis requires the P5 current capacity because identical mounting geometry does not prove electrical equivalence.

Request product documentation and quotation support

Send the complete label, system configuration, quantity and destination.



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