

Allen-Bradley 1769-PB2 Manual

Brand	Allen-Bradley
Product Series	1769
Product Type	I/O Power Supply

Description

The Allen-Bradley 1769-PB2 is a CompactLogix I/O Power Supply. This Power Supply has an input voltage range of 19.2-31.2V DC with Current capacity of 2.0 A @ 5VDC and 0.8A @ 24VDC. This power supply module is able to energize up to Sixteen (16) CompactLogix modules. Technical specifications for 1769-PB2

Power Supply Distance Rating 8; 8 I/O modules can be connected on either side of the power supply for a maximum of 16 module.

Manufacturer Rockwell Automation / Allen-Bradley

Product Type: I/O Power Supply

Input Voltage range: 19.2-31.2 VDC

Power consumption: 7.5 W @ 60 °C (140 °F)

Current capacity @ 5V DC: 2.0 A

Current capacity @ 24V DC: 0.8 A

Inrush current, max: 30 A @ 31.2V DC

Fuse type: Littelfuse 02153.15MXP; Wickmann 19195-3.15A

Dimensions (HxWxD), approximately 87 mm (3.43 in) x 165 mm (6.5 in) x 138 mm (5.43 in) height including mounting tabs is 138 mm (5.43 in.)

Weight: 485 g (1.07 lb)

Wire size: 14 AWG (2.5 mm²) solid copper wire rated at 90 °C (194 °F) or greater, 1.2 mm (3/64 in.) insulation max

Certifications: c-UL-us; CE; C-Tick

Brand Allen-Bradley

Part Number/Catalog No. 1769-PB2

Product Line CompactLogix

Module Type DC Power Supply Module

Input Power 24VDC

Shipping Weight 2 pounds

Shipping Dimensions 8 x 8 x 5 inches

Enclosure Type Open

Series A and B

Wire Type Copper 90 degrees

Solid Wire Size 22 to 14 AWG

Stranded Wire Size 22 to 16 AWG

UPC 10662468992968 Description

The 1769-PB2 is a CompactLogix I/O power supply. This power supply acts as an I/O power supply, which may be mounted in a CompactLogix rack or to the expansion I/O bank. This power supply is capable of providing power to both left and right side, allowing Eight (8) modules to be installed on each side for a maximum of Sixteen (16) modules, overall.

The 1769-PB2 has an input voltage rating of 19.2-31.2VDC with nominal voltage of 24VDC. Once supplied with the appropriate input voltage, the 1769-PB2 is capable of providing an output current of 2.0 A @ 5VDC and 0.8A @ 24VDC. This module is designed to withstand an inrush current of 30 A @ 31.2V DC.

The 1769-PB2 has a power consumption of 50 VA @ 24V DC and power dissipation of 7.5 W @ 60° C (140° F). It has an internally installed fuse for protection. Compatible fuse are Wickmann 19193-6.3A and Littelfuse 021706.3MXP.

The 1769-PB2 has an approximate weight of 525 g (1.16 lb) with physical measurements of 118 x 70 x 87 mm (4.65 x 2.76 x 3.43 in.). This I/O power supply support direct panel mounting or DIN rail mounting, following the supported mounting method of the CompactLogix platform.

When making signal wiring and connection to this I/O power supply, appropriate wire size is 14 AWG (2.5 mm²), solid copper wire with insulation rating of 90 °C (194 °F) or higher and insulation thickness of 1.2 mm (3/64 in.). It has an open-type enclosure therefore, this power supply, along the entire CompactLogix assembly must be mounted inside an enclosure that offers adequate protection against industrial elements.

This power supply module has built-in Wickmann 19193-6.3A or Littelfuse 021706.3MXP fuse. The 1769-PB2 has printed terminal identification diagrams, finger-safe covers, upper and lower panel mounting tabs, and barrier-type terminal blocks provided for secure installation and operation.

The 1769-PB2 has an output current capacity of 1 Amp on both sides of the power supply at 24 Volts DC or it can provide 2 Amps of current each at 5 Volts DC. It has a power supply distance rating of 8, allowing up to 8 I/O modules to be connected on each side of the power supply. It also has a line loss ride through a range of a minimum of 10 milliseconds and a maximum of 10 seconds.

The Allen-Bradley 1769-PB2 module has an input voltage range of 19.2 to 31.2 Volts DC, a nominal input voltage of 24 Volts DC. Its power consumption is 50 VA at 24 Volts DC while its maximum inrush current is 30 Amps at 31.2 Volts DC. It has a current capacity of 2 Amps at 5 Volts or one of 0.8 Amps at 24 Volts and a power dissipation of 7.5 Watts at 140 degrees Fahrenheit. The continuous isolation voltage of the 1769-PB2 is 75 Volts and the non-condensing relative humidity range is 5 to 95%. Its operating temperature range is 32 to 140 degrees Fahrenheit, and its storage temperature range is -40 to 185 degrees Fahrenheit. It can also withstand an operating vibration of 5 G at 10 to 500 Hertz, a non-operating shock of 50 G, and an operating shock of 30 G. 1769PB2 Allen Bradley POWER SUPPLY MODULE 24VDC 2AMP 5VDC I/O INPUT AB Rockwell Automation

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Technical Specifications

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