

Allen-Bradley 1734-EP24DC Manual

Brand	Allen-Bradley
Product Series	1746 1747
Product Type	Expansion Power Supply

Description

The Allen-Bradley 1734-EP24DC is a Point I/O expansion power supply. This module supports installation Four (4) to Seventeen (17) modules. It has an input voltage rating of 24VDC nominal with voltage range of 10-28.8VDC. This module provides POINTBus output Current of 1 A @ 10-19.2V input and 1.3 A @ 19.2-28.8V input for horizontal mounting and 1 A @ 10-28.8V input for vertical mounting. Technical specifications for 1734-EP24DC

Manufacturer Rockwell Automation

Thermal Dissipation 10 BTU/hour

Isolation Voltage 50 Volts Continuous

Inrush Current 6 amps for 10 milliseconds

Overvoltage Protection Reverse Polarity

Power Supply Current 10 amps

Power Consumption 9.8 Watts

Field Power 24 Volts DC

Module Type Expansion Power Supply

Series POINT I/O

Part Number/Catalog No. 1734-EP24DC

Brand Allen-Bradley

Mounting Horizontal / Vertical

POINTBus output current Horizontal mounting – 1 A @ 10...19.2V input; 1.3 A @ 19.2...28.8V input Vertical mounting – 1 A @ 10...28.8V input

Power Dissipation 3 Watts

UPC 10612598206879 Description

The Allen-Bradley 1734-EP24DC Power supply expansion unit passes the 24V DC electric field to the I/O module on the right side. This power supply expansion unit extends the backplane bus power up to 17 I/O modules on the right side of the supply. This power supply creates a new field voltage partition segment for the field drive device. The 1734-EP24DC separates field power from the I/O module to the left of the unit.

This power supply is dark gray, and the dark gray color of the expansion power supply enables easy visual inspection and identification. You can use a power supply expansion unit with a POINT I/O adapter to assemble the system in full. The 1734-EP24DC expansion unit is compatible with 1734 POINT I/O adapters.

The supply voltage range of the 1734-EP24DC is from 10-28.8V DC. The maximum supply current of this power supply is 10A. The operating temperature of this power supply is -13-140 deg. Fahrenheit and the nonoperating temperature is -40-185 deg. Fahrenheit at a relative humidity of 5-95% without condensation. The operating vibration of this power supply is 5g at 10-500 Hz. The operating shock of the 1734-EP24DC is 30g and the nonoperating shock is 50g. It has 24 Volts DC Field Power and an Inrush Current of 6 amps for 10 milliseconds with Reverse Polarity Overvoltage Protection. This Expansion Power Supply has 10 amps Power Supply Current.

The 1734-EP24DC is an Allen-Bradley module that functions as an expansion power supply. This module is designed for use with the 1734 POINT I/O system. It is mainly used to extend the POINTBus current and supply power to modules installed at the right side of

the power supply.

The 1734-EP24DC supports installation of up to Four (4) to Seventeen (17) POINT I/O modules, depending on the current rating of the installed module. It has an input voltage rating of 24VDC, nominal with acceptable voltage range of 10-28.8 VDC. This expansion power supply is capable of withstanding an inrush current of 6 Amperes for 10 ms.

The 1734-EP24DC has a built-in status indicator such as field power status indicator and 5V system power indicator. It may be installed horizontally and vertically, following the orientation of the POINT I/O system. When installed horizontally, the POINTBus output current are 1 A @ 10-19.2VDC input and 1.3 A @ 19.2-28.8VDC input. When installed vertically, the POINTBus output current is 1 A @ 10-28.8V input. This module has an integral input overvoltage protection, specifically, reverse polarity protection.

The 1734-EP24DC is compatible for installation with any 1734 POINT I/O adapters. When the expansion power supply is interrupted, the output voltage stays within the specification when input supply voltage drops out for 10 ms at 10V maximum load.

The 1734-EP24DC has a maximum power consumption of 9.8 W @ 28.8V DC and maximum power dissipation of 3.0 W @ 28.8V DC and Thermal Dissipation of 10.0 BTU/hr @ 28.8V DC.

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