

Installation Identity and Scope

Allen-Bradley 1746-OB16E is an electronically protected 16-point sourcing DC output module for SLC 500 systems. It switches configured DC field loads and reports overload or short-circuit conditions through its electronic protection behavior.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	1746-OB16E
Manufacturer	Allen-Bradley
Hardware role	DC Output Module
System family	SLC 500

Controlled engineering copy

Confirm the complete 1746-OB16E series marking, terminal assignment, supply range, point and module current limits, load suppression and SLC slot configuration before energization.

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WHATSAPP / PHONE +86 180 3023 5313

EMAIL sales13@apterpower.com

WEBSITE www.apterpower.com



1746-OB16E

Pre-Installation Plan

NO.	REQUIRED ACTION
1	Verify the complete 1746-OB16E marking and hardware series.
2	De-energize the SLC chassis and field supply before wiring work.
3	Confirm the 10 to 30 V DC field-supply range and polarity.
4	Do not exceed the point or total-module current limits.
5	Record the removable terminal-block and slot assignments before removal.
6	Review the official load-suppression guidance for every inductive device.
7	Do not assume the fast-off behavior of another hardware series.
8	Test each output, module diagnostics and the controlled machine sequence before release.

Before Energization

CONTROL	REQUIRED RECORD
Identity	Complete 1746-OB16E marking and hardware role
Connections	Approved power, grounding and protocol interfaces
Configuration	Controlled backup, addressing and protocol files
Test plan	Defined acceptance values and controlled restart authority

Release hold point

Do not disturb the installed device until exact marking, interfaces, companion hardware and configured function are documented.

Wiring, Network and Configuration Checks

CHECK	MODEL-SPECIFIC REQUIREMENT
Output points	16
Points per common	16
Operating voltage range	10 to 30 V DC
Backplane current at 5 V	135 mA
Backplane current at 24 V	0 mA
Continuous current per point at 30 C	1.0 A
Continuous current per point at 60 C	0.50 A
Continuous current per module	8.0 A maximum

Configuration boundary

Confirm the complete 1746-OB16E series marking, terminal assignment, supply range, point and module current limits, load suppression and SLC slot configuration before energization.

Expected Technical Values

PARAMETER	VALUE
Surge current per point	2.0 A for 10 ms
Surge current per module	32 A for 10 ms
On-state voltage drop	1.0 V maximum at 0.50 A
Minimum load current	1 mA

Additional Official Data

PARAMETER	VALUE
Off-state leakage current	1 mA maximum
Signal delay	1 ms on and 1 ms off
Module ID code	2920
Terminal block	Removable

Commissioning and Acceptance

TEST	ACCEPTANCE CONDITION
Identity	Manufacturer and complete 1746-OB16E marking match the record.
Power	Measured supply agrees with the documented operating requirement.
Interface	Connectors, addressing and network parameters match the approved project.
Configuration	Protocol files, framing and mapped data areas match the controlled backup.
Diagnostics	No unexplained status, counter or communication fault remains.
Functional proof	Controlled bidirectional data transfer completes successfully.
Release	Final values and test results are retained with restart approval.

Questions to Resolve

QUESTION	ENGINEERING ANSWER
What is Allen-Bradley 1746-OB16E?	1746-OB16E is a 16-point electronically protected sourcing DC output module for SLC 500 systems.
How many outputs does Allen-Bradley 1746-OB16E provide?	It provides 16 outputs in one common group.

Related Products

MODEL	APTER POWER PAGE
Allen-Bradley 1746-OB16	View Allen-Bradley 1746-OB16
Allen-Bradley 1746-OBP16	View Allen-Bradley 1746-OBP16
Allen-Bradley 1746-OW16	View Allen-Bradley 1746-OW16
Allen-Bradley 1747-L552	View Allen-Bradley 1747-L552

Source, Related Products and Release

MODEL	APTER POWER PAGE
Allen-Bradley 1747-SN	View Allen-Bradley 1747-SN
Allen-Bradley 1756-DHRIO	View Allen-Bradley 1756-DHRIO
Allen-Bradley 1756-IV32	View Allen-Bradley 1756-IV32
Allen-Bradley 1756-OA16	View Allen-Bradley 1756-OA16

MANUFACTURER SOURCE RECORDS

1. Rockwell Automation SLC 500 System Selection Guide, publication 1747-SG001D-EN-P
2. Rockwell Automation 1746-OB16E Installation Instructions, publication 1746-IN027-EN-P

Controlled Release Summary

RELEASE ITEM	REQUIRED EVIDENCE
Identity	1746-OB16E recorded
Interface	Connections and companion hardware verified
Configuration	Installed values agree with approved record
Functional proof	Controlled test completed without unexplained fault

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