

1746-OB16E

DC Output Module

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.

IDENTITY	VERIFIED VALUE
Manufacturer	Allen-Bradley
Complete model	1746-OB16E
Product role	DC Output Module
System family	SLC 500

Document scope

Exact identity, verified technical data, applications, precautions, model-specific FAQ and controlled acceptance records.

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Technical Specifications

PARAMETER	VERIFIED VALUE
Catalog number	1746-OB16E
Module type	Electronically protected sourcing DC output
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

PARAMETER	VERIFIED VALUE
Continuous current per module	8.0 A maximum
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
Off-state leakage current	1 mA maximum
Signal delay	1 ms on and 1 ms off
Module ID code	2920
Terminal block	Removable

Engineering 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.

Functions and Applications

Sixteen sourcing outputs

Controls sixteen DC load points in one common group.

Electronic protection

Protects the module against documented short-circuit and overload conditions.

Removable terminal block

Allows the field terminal assembly to be separated from the module during controlled service.

Series B fast-off behavior

Provides the documented fast-off feature for Series B and later hardware.

Common Applications

APPLICATION	ENGINEERING CONTEXT
DC solenoid control	Switches approved DC solenoid loads within the point and module limits.
Indicator and relay outputs	Drives documented DC indicators and relay coils.
SLC 500 machine control	Adds protected discrete outputs to a modular SLC station.
Installed-base renewal	Supports controlled replacement while retaining the exact terminal, slot and load records.

Controlled acceptance duty

Confirm identity, interfaces, configured values and functional response against the installed-system record before release.

Engineering Precautions

NO.	PRECAUTION
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.

Model-Specific FAQ - Part 1

QUESTION	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.
What voltage range does Allen-Bradley 1746-OB16E use?	The documented operating range is 10 to 30 V DC.
What backplane current does Allen-Bradley 1746-OB16E draw?	It draws 135 mA at 5 V and 0 mA at 24 V from the backplane.

Related Products

MODEL	APTER POWER PAGE
Allen-Bradley 1746-ITV16	View Allen-Bradley 1746-ITV16
Allen-Bradley 1746-IV32	View Allen-Bradley 1746-IV32
Allen-Bradley 1746-NI16I	View Allen-Bradley 1746-NI16I
Allen-Bradley 1746-NI8	View Allen-Bradley 1746-NI8

Model-Specific FAQ - Part 2

QUESTION	ANSWER
What is the continuous module-current limit for Allen-Bradley 1746-OB16E?	The documented maximum continuous current is 8.0 A per module.
Does Allen-Bradley 1746-OB16E include electronic protection?	Yes. The module provides documented short-circuit and overload protection.
Does Allen-Bradley 1746-OB16E use a removable terminal block?	Yes. The official selection data lists a removable terminal block.
What confirms Allen-Bradley 1746-OB16E commissioning?	Verify the field supply, output map, load current, protection status, terminal assignment and every commanded output.

Related Products and Release

MODEL	APTER POWER PAGE
Allen-Bradley 1746-NIO4V	View Allen-Bradley 1746-NIO4V
Allen-Bradley 1746-NO4I	View Allen-Bradley 1746-NO4I
Allen-Bradley 1746-NR4	View Allen-Bradley 1746-NR4
Allen-Bradley 1746-OAP12	View Allen-Bradley 1746-OAP12

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

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