

1756-PSCA2

ControlLogix redundant power supply chassis adapter

Redundant ControlLogix chassis power transfer

PRODUCT SNAPSHOT

BRAND

Allen-Bradley

FAMILY

Allen-Bradley ControlLogix redundant power

PART

1756-PSCA2

ORIGIN / HS

USA / 8537101190

APTER POWER SALES TEAM

WHATSAPP / PHONE

+86 180 3023 5313

EMAIL

sales13@apterpower.com

WEBSITE

www.apterpower.com



PRODUCT OVERVIEW

Redundant ControlLogix chassis power transfer

1

Accepts two redundant power-supply cables

2

Feeds one ControlLogix chassis backplane

3

Supports power-supply redundancy diagnostics

4

Mounts in the chassis power-adapter position

SYSTEM COMPONENTS

two ControlLogix redundant power supplies

two 1756-CPR2 cables

compatible Series B ControlLogix chassis

annunciator wiring where used

TECHNICAL NOTE

De-energize both redundant supplies, identify both cable paths and annunciator conductors, and verify chassis Series compatibility before installation.

TECHNICAL DATA

PARAMETER	VALUE
Function	Redundant power supply chassis adapter
Power-supply inputs	2 redundant supply cables
Backplane current capacity	4 A at 3.3 V DC
Operating temperature	0 to 60 degC

PARAMETER	VALUE
Relative humidity	5 to 95% noncondensing
Operating shock	30 g
Vibration	2 g at 10 to 500 Hz
Enclosure	Open style

ENGINEERING NOTE

De-energize both redundant supplies, identify both cable paths and annunciator conductors, and verify chassis Series compatibility before installation.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
Siemens 6SL3352-6TE33-8AA3	Related industrial automation product	View Siemens 6SL3352-6TE33-8AA3 page
Siemens 6RY1803-0DA04	Related industrial automation product	View Siemens 6RY1803-0DA04 page
Siemens C98043-A7106-L4	Related industrial automation product	View Siemens C98043-A7106-L4 page
Bently Nevada 330180-90-CN	Related industrial automation product	View Bently Nevada 330180-90-CN page
Bently Nevada 330106-05-30-10-02-00	Related industrial automation product	View Bently Nevada 330106-05-30-10-02-00 page
Siemens 6RY1803-0DA03	Related industrial automation product	View Siemens 6RY1803-0DA03 page
Bently Nevada 330104-01-05-50-02-00	Related industrial automation product	View Bently Nevada 330104-01-05-50-02-00 page
Bently Nevada 330910-00-24-10-01-CN	Related industrial automation product	View Bently Nevada 330910-00-24-10-01-CN page

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Redundant controller chassis supply

Accepts two redundant power-supply cables

High-availability process rack

Feeds one ControlLogix chassis backplane

Controlled supply switchover

Supports power-supply redundancy diagnostics

Chassis-adapter replacement

Mounts in the chassis power-adapter position

PRODUCT PRECAUTIONS

- 1 Verify the complete 1756-PSCA2 marking and its assigned Allen-Bradley ControlLogix redundant power position before work.
- 2 Place the connected redundant controller chassis supply process in the approved maintenance state.
- 3 Isolate applicable power and redundant controllogix chassis power transfer field energy before disconnecting conductors.
- 4 Record connector, conductor, address, firmware and software identities before removal.
- 5 Use ESD controls and protect keyed interfaces, exposed contacts and electronic assemblies.
- 6 Confirm the installed two ControlLogix redundant power supplies and two 1756-CPR2 cables against the approved project.
- 7 Restore power in a controlled sequence and review device, network and host diagnostics.
- 8 Prove the intended high-availability process rack function and retain the final test result.

ENGINEER FAQ

Q1 Does 1756-PSCA2 match two ControlLogix redundant power supplies in a Redundant controller chassis supply installation?

Verify the complete 1756-PSCA2 marking, the documented Allen-Bradley ControlLogix redundant power position and the installed two ControlLogix redundant power supplies before fitting the assembly.

Q3 Which Allen-Bradley ControlLogix redundant power records should be captured before removing 1756-PSCA2?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with 1756-PSCA2 before disconnection.

Q5 Which two 1756-CPR2 cables condition should be checked when 1756-PSCA2 reports an abnormal state?

Check the two 1756-CPR2 cables supply, seating and connection first, then compare channel diagnostics with the recorded 1756-PSCA2 baseline.

Q7 What maintenance evidence is required after 1756-PSCA2 is used for Controlled supply switchover?

Retain the nameplate record, corrective action, final diagnostics and a controlled controlled supply switchover functional-test result for 1756-PSCA2.

Q2 How should 1756-PSCA2 be wired when it must accepts two redundant power-supply cables?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for 1756-PSCA2; then continuity-test the affected path.

Q4 What controlled test confirms that 1756-PSCA2 can feeds one controllogix chassis backplane?

Apply the approved field or simulated stimulus, observe the Allen-Bradley ControlLogix redundant power indication and confirm the intended response without bypassing the normal interlocks.

Q6 Can 1756-PSCA2 be moved directly into High-availability process rack without validating annunciator wiring where used?

No. Confirm the annunciator wiring where used, revision, connection scheme and Allen-Bradley ControlLogix redundant power configuration before transferring 1756-PSCA2 to that duty.

Q8 How should 1756-PSCA2 be returned to service in Chassis-adapter replacement?

Restore power under control, verify supports power-supply redundancy diagnostics, exercise the intended signal path and release 1756-PSCA2 only after the Allen-Bradley ControlLogix redundant power remains in its approved operating state.

SOURCE Rockwell Automation redundant power system documentation | 1756-IN620; 1756-TD005

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