

Product dashboard

Siemens 500-2151 is the documented AC power supply for Series 500 base hardware. It accepts the recorded 110/220 VAC installation and provides the regulated base voltages used by the controller and I/O modules.

Exact model

500-2151

Product type

Series 500 AC Power Supply

System family

SIMATIC TI500 / TI505

Functional role

AC Power Supply

PARAMETER	DOCUMENTED VALUE
Exact model	500-2151
Hardware type	AC base power supply
Product family	Series 500
Documented input	110/220 VAC
Main output rail	+5 V
Auxiliary output rail	-5 V
Documented +5 V capacity	54 W
Documented -5 V capacity	3.75 W

Release basis: verify the exact identity, retained host relationship, connected interfaces and controlled functional result.

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500-2151

System overview

The 500-2151 supplies a matched Series 500 base and must be selected independently from the later 500-2151-A redundant-base execution.

- Installed-system renewal**

Restores the documented 500-2151 position while keeping the approved host and interfaces.
- Controlled maintenance**

Supports as-found recording, safe isolation and exact connection restoration.
- Compatibility review**

Compares the full marking, host, connectors, settings and companion hardware.
- Commissioning evidence**

Records diagnostics and a controlled functional test of regulated base power for a matched SIMATIC TI500 or TI505 installation.

SYSTEM POSITION		RECORD
Installed identity		500-2151

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Technical data map

PARAMETER	VERIFIED VALUE
Exact model	500-2151
Hardware type	AC base power supply
Product family	Series 500
Documented input	110/220 VAC
Main output rail	+5 V
Auxiliary output rail	-5 V
Documented +5 V capacity	54 W
Documented -5 V capacity	3.75 W
Variant boundary	Do not substitute 500-2151-A data
Acceptance	Rail voltages and base startup

CONTROL BAND	VERIFICATION RECORD
Identity	Exact model and complete label
Mechanical	Form, seating and retention
Interfaces	Power, wiring, communication and protection
Configuration	Settings, project and revision
Release	regulated base power for a matched SIMATIC TI500 or TI505 installation

Technical evidence record: Siemens SIMATIC TI525/TI535 hardware manual, Series 500 component power table

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Applications and precautions

1

Confirm the complete 500-2151 marking before work.

2

Place the affected equipment in its approved maintenance state.

3

Isolate connected energy and prove the circuit safe.

4

Photograph the slot, wiring, connectors and settings before removal.

5

Match every documented interface and companion component.

6

Restore mechanical retention, shielding and protective earth.

7

Review hardware, network and controller diagnostics after energization.

8

Functionally verify regulated base power for a matched SIMATIC TI500 or TI505 installation before service release.

Complete each check against the installed record; hold release when any identity, connection, configuration or diagnostic result differs.

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Buyer and engineering FAQ

What does 500-2151 identify?

500-2151 identifies the series 500 ac power supply used for regulated base power for a matched SIMATIC TI500 or TI505 installation.

Which installed system must 500-2151 match?

Match 500-2151 to the recorded SIMATIC TI500 / TI505 host, position and companion hardware.

Which markings must be checked on 500-2151?

Verify the complete 500-2151 text and every suffix, revision or assembly marking on the supplied item.

What should be recorded before removing 500-2151?

Record the slot, connectors, cable labels, switches, parameters, adjacent hardware and diagnostic state.

Related Apter Power pages

[Siemens 6ES7517-3HP00-0AB0 - View Apter Power product page](#)

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