

Siemens

500-2151

Series 500 AC Power Supply

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.

System position

Exact identity 500-2151	System family SIMATIC TI500 / TI505	Functional role AC Power Supply	Release basis Recorded test and diagnostics
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Keep the hardware and configuration identities together

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

IDENTITY / RESOURCE	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

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

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Interfaces and integration

Define the installed role

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

Exact model	500-2151
Hardware type	AC base power supply
Product family	Series 500

Map the host relationship

The complete 500-2151 identity is matched to the host position, companion hardware and retained engineering record before any connection is disturbed.

Host	SIMATIC TI500 / TI505
Primary role	regulated base power for a matched SIMATIC TI500 or
Acceptance	Diagnostics and functional response

Interface control matrix

CONTROL BAND	VERIFICATION RECORD
Identity	Exact model and complete label
Mechanical	Form, seating and retention
Electrical	Power, field wiring and protective earth
Communication	Address, network and companion configuration
Configuration	Switches, parameters, project and revision
Release	Controlled test with retained result

Configuration continuity

Retain the recorded SIMATIC TI500 / TI505 position, connected interfaces and configuration baseline.

Acceptance evidence

Release 500-2151 only after diagnostics and a controlled functional result are recorded.

Technical resource bands

Only values tied to the complete product identity are listed. Installation-specific settings remain governed by the controlled site record.

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

Identity decision

Accept only the complete 500-2151 marking and the recorded hardware execution.

Host decision

Confirm the receiving SIMATIC TI500 / TI505 position and every companion component.

Interface decision

Compare mechanical fit, power, field wiring, communication and protective earth.

Release decision

Record diagnostics and a controlled test of regulated base power for a matched SIMATIC TI500 or TI505 installation before handover.

Engineering boundary

Use 500-2151 only after the exact host, installed position, companion parts, protection measures and commissioning record have been matched. Do not borrow ratings from a similar-looking variant.

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Controls and service logic

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

Service decision path

STEP	REQUIRED OUTCOME
1. Identify	Read 500-2151 and all companion markings
2. Compare	Host, position, connections, settings and revision
3. Install	Restore wiring, shielding, retention and protection
4. Verify	Review diagnostics and execute controlled function test

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Engineering decisions

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.

Can 500-2151 be replaced by appearance alone?

No. 500-2151 requires an exact identity and interface match against the installed-system record.

How should 500-2151 be isolated?

Use the approved maintenance state, remove connected energy and prove the affected circuit safe.

Related Apter Power pages

[Siemens 6ES7321-1BL00-0AA0 - View Apter Power product page](#)

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