Siemens 505-6660B

Installation & Commissioning Guide

01 Job scope and safe-work boundary

Controlled exchange of the 505-6660B AC power supply in a SIMATIC 505 rack.

Offered reference	Siemens 505-6660B
Installed platform	SIMATIC 505 rack
Work purpose	Identify, fit, configure and verify the complete offered item
Evidence basis	Siemens SIMATIC 505 ST40 Catalog; SIMATIC 545/555/575 System Manual, PPX:505-8201-3

Before isolation

Identify	Acceptance before work
Order identity	Match 505-6660B with the Siemens PPX:505-6660-B order notation.
Line supply	Record whether the site feed is in the 85-132 V or 170-264 V range.
Input selector	Locate the -B 110 V / 220 V selector before energizing.

02 Pre-installation readiness

Check	Decision criterion
Rack load	Confirm connected modules remain within the 60 W rating.
Redundancy	Record any documented redundant-supply wiring in the installed rack.
Isolation boundary	Identify and isolate the AC feed to the rack.

System interface record

AC input range 2	170-264 V AC
Rated output power	60 W
Galvanic isolation	Yes
Short-circuit protection	Yes

Go / no-go decision

The Siemens 505-6660-A/B catalog data applies to the -B execution; selector detail comes from the separate SIMATIC 545/555/575 system manual.

03 Installation or replacement sequence

Stage	Field action	Hold point
01 Record	Save the complete supply code, rack model, input range and selector setting.	Preserve the -B execution in the work order.
02 Isolate	Switch off and isolate the AC input.	Confirm the rack supply is de-energized.
03 Select	Set the 110 V / 220 V selector for the actual line range.	Check the selector before the module is powered.
04 Seat	Engage the supply with the 505 backplane.	Use the documented top and bottom bezel screws.
05 Wire	Restore the recorded AC and redundancy connections.	Match the installed rack wiring scheme.
06 Prove	Energize and review supply and PLC operation.	Record the final selector and load arrangement.

04 Commissioning and acceptance

Test	Acceptable observation	If not
Input match	The -B selector agrees with the measured line range.	Remove power and correct the selector.
Mechanical seat	The backplane is engaged and bezel screws are secure.	Reseat under isolation.
Supply function	The rack shows its expected supply indication.	Check input wiring and module placement.
PLC response	The controller resumes the expected operating state.	Use rack diagnostics before release.
Load record	Module load and any redundancy wiring are documented.	Resolve the power budget or wiring record.

Record the completed configuration

Keep the complete offered marking, installed system identity, settings and observed checks with the maintenance record.

Discuss the complete reference

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05 Fault response and handover

Observation	Review path
Wrong selector position	Isolate AC power before correcting the 110 V / 220 V setting.
No rack power	Check isolated feed, input range, supply seating and rack load.
Controller fault after exchange	Review backplane connection and rack diagnostics.
Redundancy alarm	Compare wiring with the installed rack redundancy scheme.

Handover boundary

Confirm the supply module and any rack wiring or redundancy accessories in the quotation.

Related catalog references

Portfolio navigation only. Verify every proposed configuration separately.

- **Siemens TI435-CPU**
- **Siemens TI-405-8ADC-1**
- **Siemens TI-405-8ADC**