Siemens 6ES7307-1KA00-0AA0

Installation & Commissioning Guide

Siemens 6ES7307-1KA00-0AA0 is a SIMATIC S7 PS 307-1K regulated power supply that converts 120/230 V AC input to 24 V DC at 10 A. It supplies the documented S7-300 or ET 200M station load from the AC mains.

PRODUCT ROLE AND VERIFIED FEATURES

Feature 1

Accepts a 120/230 V AC input selection.

Feature 2

Provides a regulated 24 V DC output.

Feature 3

Supplies up to the documented 10 A output rating.

Feature 4

Uses the SIMATIC S7-300 form factor for station integration.

VERIFIED DATA SNAPSHOT

Product family	SIMATIC S7
Power-supply type	PS 307-1K
Input	120/230 V AC
Output voltage	24 V DC

SYSTEM RELATIONSHIP

Field device → **Product interface** → **System channel** → **Verified response**

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Pre-installation readiness

READINESS GATE

Identity

Compare the complete marking with the approved work order and installed record.

System match

Confirm the receiving channel, mating components and controlled configuration.

Physical condition

Inspect mounting surfaces, connectors, terminals, cable and support hardware.

Work controls

Apply authorized isolation, bypass, access and restoration procedures.

TECHNICAL PROFILE FOR THE WORK

Product family	**Power-supply type**
SIMATIC S7	PS 307-1K
Input	**Output voltage**
120/230 V AC	24 V DC
Output current	**Application**
10 A	S7-300 and ET 200M station power

IMPORTANT NOTICE Resolve every unmatched interface, configuration or receiving-system condition before removal or installation.

SOURCE AND WORK CONTROLS

Manufacturer source	Siemens SIMATIC S7 power-supply selection data for 6ES7307-1KA00-0AA0
Evidence boundary	Technical statements are limited to the identified product or applicable manufacturer family.
Selection control	Use the complete ordering string and verify the installed system before purchase or installation.

Installation sequence

CONTROLLED WORK STEPS

01	Confirm the complete 6ES7307-1KA00-0AA0 article number and PS 307-1K designation.
02	Verify the available mains voltage and the selected 120/230 V AC setting.
03	Isolate incoming AC and stored energy before wiring or removal.
04	Confirm protective-earth, line, neutral and 24 V DC polarity connections.
05	Calculate the station current demand against the 10 A output rating.
06	Keep ventilation clear and retain the documented mounting orientation.
07	Check 24 V DC output before connecting the controller load.
08	Verify the station remains stable through startup and the intended operating load.

CONNECTION RECORD

As found	Photograph and label every connection and installed orientation before removal.
Mechanical	Record mounting position, support, clearance and connector engagement.
Electrical	Record polarity, common, shield, channel assignment and cable route.
Configuration	Preserve approved settings, scaling, alarm logic and acceptance limits.
As left	Record the final physical condition and any controlled deviation.

Field device → **Product interface** → **System channel** → **Verified response**

WORK HOLD POINTS

Before removal	Identity, position, wiring, orientation and controlled settings recorded.
Before connection	Mating interfaces, condition and routing reviewed.
Before power-up	Mechanical work, wiring, shielding and configuration independently checked.
Before release	Static value, dynamic response and protection behavior accepted.

Commissioning and functional proof

COMMISSIONING SEQUENCE

Initial state

Observe status at power-up and check for unexpected fault or alarm indication.

Static value

Verify the expected bias, gap, loop, contact or channel value for the application.

Dynamic response

Apply the approved machine or test stimulus and confirm response and scaling.

Protection path

Verify the configured alarm, relay, data or receiving-system behavior.

APPLICATION-SPECIFIC EVIDENCE

S7-300 station power

Supply the CPU and signal-module load within the documented current budget.

ET 200M cabinet power

Provide regulated 24 V DC where a local AC-fed station supply is required.

Machine-control cabinet

Power compatible SIMATIC modules and protected auxiliary circuits.

Maintenance replacement

Restore the same PS 307 voltage and current execution in an existing station.

ACCEPTANCE RECORD

Identity	Complete marking and final installed position recorded.
Physical inspection	Mounting, connectors, terminals and routing checked.
Channel status	Expected status and configured measurement confirmed.
Functional test	Required output or protection response demonstrated.
Restoration	Bypasses removed and operating state approved.

COMMISSIONING QUESTIONS

What type of device is Siemens 6ES7307-1KA00-0AA0?	It is a SIMATIC PS 307-1K regulated power supply.
Which input supply is specified for Siemens 6ES7307-1KA00-0AA0?	The input is selectable for 120 or 230 V AC.

Release record and technical references

CLOSEOUT QUESTIONS

What output does Siemens 6ES7307-1KA00-0AA0 provide?	It provides 24 V DC at the documented 10 A rating.
Which station families can use Siemens 6ES7307-1KA00-0AA0?	The PS 307 format supports applicable S7-300 and ET 200M station arrangements.
What must be checked before energizing Siemens 6ES7307-1KA00-0AA0?	Check mains selection, protective earth, polarity and the calculated current demand.
What completes commissioning of Siemens 6ES7307-1KA00-0AA0?	Verify the 24 V DC output and stable station operation through startup and load testing.
Which installation records should accompany Siemens 6ES7307-1KA00-0AA0?	Record the complete article number, power supply position, connections, controlled settings and functional test result.
When can Siemens 6ES7307-1KA00-0AA0 return to service?	Return it to service only after diagnostics, communication, interlocks and the intended system response meet the approved acceptance criteria.

RELATED MODELS FOR INSTALLATION PLANNING

Siemens 6ES7312-1AE13-0AB0	Installation-planning reference. Review the complete ordering string before selection.
Siemens 6ES7314-6BH04-0AB0	Installation-planning reference. Compare the required interface and system position.
Siemens 6ES7315-2EG10-0AB0	Installation-planning reference. Confirm the execution independently for the intended task.

MANUFACTURER SOURCE AND FINAL CONTROL

Manufacturer source	Siemens SIMATIC S7 power-supply selection data for 6ES7307-1KA00-0AA0
Evidence boundary	Technical statements are limited to the identified product or applicable manufacturer family.
Selection control	Use the complete ordering string and verify the installed system before purchase or installation.

IMPORTANT NOTICE Release the equipment only after the responsible site authority accepts the recorded result.

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