Siemens 6ES7307-1KA00-0AA0

Technical Reference

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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Technical profile

Verified technical values for the complete product string are arranged below for selection and engineering review.

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

SELECTION ANCHORS

- Accepts a 120/230 V AC input selection.
- Provides a regulated 24 V DC output.
- Supplies up to the documented 10 A output rating.
- Uses the SIMATIC S7-300 form factor for station integration.

IMPORTANT NOTICE	Use the values as one matched configuration. Do not substitute a nearby ordering code without a separate check.

MANUFACTURER SOURCE 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.

ADDITIONAL ENGINEERING CHECKS

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.

System role and architecture

Field device → Product interface → System channel → Verified response

APPLICATION POINTS

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.

INTEGRATION RECORD

Identity	Record the complete marking and installed position.
Mechanical interface	Confirm mounting, support, clearance and connector engagement.
Electrical interface	Confirm signal path, shield, common and receiving-channel assignment.
Configuration	Retain the controlled channel settings and acceptance criteria.
Functional evidence	Record the expected static value, dynamic response and system status.

The power supply serves a defined role in its documented SIMATIC system. Match the rack, interfaces, configuration and program safeguards before the controlled system returns to service.

ENGINEERING REVIEW 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.
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.

Engineering checks and acceptance

PRODUCT PRECAUTIONS

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.

RELEASE EVIDENCE

Exact identity	Product marking and intended system position agree.
Interface condition	Mounting, connectors, terminals and cable routing are secure.
Signal response	The expected static and dynamic behavior has been observed.
Protection state	Channel status, alarms and controlled bypass state are restored.

IMPORTANT NOTICE	Use the complete article number and verify the intended SIMATIC system before installation.

APPLICATION BOUNDARIES

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.

Technical questions and related models

MODEL-SPECIFIC 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.
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.

RELATED MODELS ON APTERPOWER

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

SOURCE AND SELECTION RECORD

Manufacturer source	Siemens SIMATIC S7 power-supply selection data for 6ES7307-1KA00-0AA0
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Selection control	Use the complete ordering string and verify the installed system before purchase or installation.

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