Siemens 6ES7307-1KA00-0AA0

Complete Product Information

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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Product dossier

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.

VERIFIED IDENTITY AND ROLE

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

PRODUCT CHARACTERISTICS

- 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.

SELECTION BOUNDARY

Article identity	Use the complete 6ES7307-1KA00-0AA0 ordering string.
Supply designation	Confirm the PS 307-1K marking.
Electrical rating	Verify 120/230 V AC input and 24 V DC / 10 A output.
Station role	S7-300 and ET 200M station power

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

System context and applications

Field device → Product interface → System channel → Verified response

DOCUMENTED SYSTEM RELATIONSHIP

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.

COMMON APPLICATIONS

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.

CONFIGURATION RECORDS TO PRESERVE

Incoming supply	Record the feeder, isolation point and verified input-voltage selection.
DC distribution	Identify the 24 V DC conductors, polarity and connected station loads.
Protection	Record upstream protection and the approved cabinet safety procedure.
Mounting	Document installed position, clearances and terminal condition.
Operating state	Record status indication and the measured output before return to service.

SERVICE INFORMATION PATH

Engineering record	Controlled configuration and project data define the intended system behavior.
Installed record	Module position, interfaces and field labels connect the article to its physical role.
Acceptance record	Diagnostics, communication and functional response provide the release evidence.

Operation, service and recovery

CONTROLLED SERVICE SEQUENCE

1 — Identify	Compare the complete article number and PS 307-1K designation with the work order.
2 — Isolate	De-energize the incoming supply and verify the required safe state.
3 — Record	Label input, protective conductor and 24 V DC output wiring.
4 — Install	Mount the verified supply and restore the recorded conductor arrangement.
5 — Energize	Apply the approved input and check the supply status before connecting the full load.
6 — Validate	Confirm stable 24 V DC output and normal S7-300 or ET 200M station operation.

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.

RECOVERY DECISION POINTS

No 24 V DC output	Recheck input isolation, voltage selection, conductor seating and upstream protection.
Output falls under load	Stop release and review connected demand and wiring against the approved station record.
Station does not start	Verify DC polarity, distribution and each affected module supply connection.

Acceptance record and support

RELEASE EVIDENCE

Identity	6ES7307-1KA00-0AA0 and its documented product designation verified.
System	Installed position and intended controller or station role confirmed.
Configuration	Controlled project, settings and interface assignments restored.
Communication	Applicable rack, bus, I/O or supply status checked after startup.
Functional response	The intended system response accepted before final release.
Service record	Technician, date, observed status and final disposition recorded.

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.

RELATED SIEMENS MODELS

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 CONTACT

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.

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