

Siemens 6ES7307-1BA01-0AA0

AC Power Supply Module

Product scope

- Operates from either 120 V or 230 V single-phase AC mains.
- Supplies 24 V DC at 2 A for modular automation loads.
- Fits the 40 mm S7-300 mechanical format with IP20 enclosure protection.

Manufacturer source

Exact-model technical record

Verified model-specific overview, function, operating principle, applications and technical data.

Request a fast quote	Product reference	
Email: info@apterpower.com Phone: +86 18106909650 apter.com/inquiry.php	Siemens 6ES7307-1BA01-0AA0	

The enclosed manufacturer pages are reproduced without alteration to technical content. External interactive links and unrelated pages are excluded from this web-optimized copy.

Siemens 6ES7307-1BA01-0AA0

AC Power Supply Module

Product overview

Siemens 6ES7307-1BA01-0AA0 is a PS 307 single-phase power supply for 120/230 V AC input and 24 V DC, 2 A output. It provides the control voltage used by S7-300 and ET 200M cabinet assemblies.

6ES7307-1BA01-0AA0 accepts selectable 120 or 230 V AC mains and produces a regulated 24 V DC output. The 2 A execution occupies a 40 mm-wide S7-300-format housing for compact cabinet integration.

The supply feeds PLC electronics, remote I/O components and associated 24 V control loads from a single-phase source. Its regulated output and electronic short-circuit behavior help isolate downstream automation from normal mains variation.

A correct replacement retains the input-voltage selection, protective conductor, feeder protection and output load budget. Clearance and ambient conditions must also suit the 84% efficient, naturally cooled module.

Technical specifications

Rated input voltage	120/230 V AC
Permissible input range	85 to 132 V AC; 170 to 264 V AC
Line frequency	47 to 63 Hz
Rated output voltage	24 V DC
Rated output current	2 A
Rated output power	48 W
Efficiency	Approximately 84%
Short-circuit behavior	Electronic current limitation with automatic restart
Degree of protection	IP20
Operating temperature	0 to 60 °C
Width	40 mm
Height	125 mm
Depth	120 mm
Net weight	Approximately 0.30 kg
Country of origin	Romania

6ES7307-1BA01-0AA0 function and operating principle

Ordered configuration

This configuration is the compact 2 A member of the PS 307 AC-input family.

System role

It converts site mains into the regulated control voltage used throughout an S7-300 or ET 200M panel.

Selection and installation

Voltage selection, earthing and feeder protection must be completed before any output loads are connected.

Functional path

- Operates from either 120 V or 230 V single-phase AC mains.
- Supplies 24 V DC at 2 A for modular automation loads.
- Fits the 40 mm S7-300 mechanical format with IP20 enclosure protection.

Application scenarios

- Machine control cabinets can power the CPU, I/O and 24 V auxiliaries from the local AC feeder.
- ET 200M panels use the module when a compact integral control-power source is preferred.
- Retrofit work can retain the S7-300 module width while restoring a failed 2 A AC-fed supply.

6ES7307-1BA01-0AA0 engineering checks

Safety

- The input selector must match the applied 120 V or 230 V AC network.
- Protective earthing and upstream overcurrent protection remain part of the cabinet design.
- IP20 construction does not replace a finger-safe industrial enclosure.

Performance

- The regulated output provides 24 V DC with a 2 A continuous rating.
- The 48 W capacity must cover steady loads and permitted startup demand.
- Approximately 84% efficiency supports thermal planning for the enclosure.

Installation & Integration

- The housing occupies 40 mm on the S7-300 mounting arrangement.
- Screw-terminal conductors should be sized and tightened for the documented currents.
- A 125 by 120 mm module envelope must remain clear of wiring ducts and hot equipment.

Critical technical note

Confirm the 120/230 V selector setting on 6ES7307-1BA01-0AA0 before applying mains; an incorrect setting can damage the supply.

The technical content in this document is limited to the exact product identity shown above and the verified manufacturer material used for preparation.

Ready to source this part?

Ask for availability, pricing and delivery options.

Request a fast quote

Include the product title and any required part number or quantity.

EMAIL

info@apterpower.com

PHONE

+86 18106909650



SCAN TO CHAT ON WHATSAPP

REQUEST A QUOTE

PRODUCT: Siemens 6ES7307-1BA01-0AA0

Manufacturer pages are reproduced without alteration to technical content.

Apter Power is not an authorized distributor, reseller or representative of the products featured.