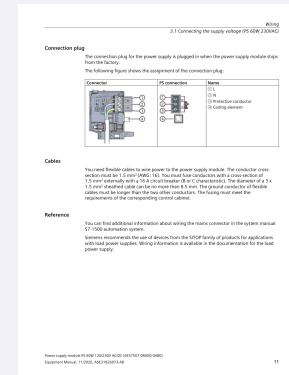


FIELD INSTALLATION QUICK GUIDE

Installation Instructions

Siemens 6ES7507-0RA00-0AB0

SIMATIC S7-1500 PS 60W 120/230V AC/DC



PRODUCT	6ES7507-0RA00-0AB0
FAMILY	SIMATIC S7-1500 / ET 200MP
FUNCTION	SIMATIC S7-1500 PS 60W 120/230V AC/DC
STATUS	Verify exact configuration

Prepared by Amikon Limited from Siemens A5E31826073-AB, 11/2020; system manual A5E03461182-AN, 11/2025. This guide does not replace the complete manufacturer manual, site procedure, hazardous-area drawing, or approval document.

01 CONFIRM THE ORDERED CONFIGURATION

Nominal supply voltages	120 or 230 V AC/DC
Permissible AC input	85 to 264 V AC
Permissible DC input	88 to 300 V DC
Permissible mains frequency	47 to 63 Hz
Rated input current	120 V AC/DC: 0.6 A; 230 V AC: 0.34 A; 230 V DC: 0.3 A
Backplane power infeed	60 W
Rated power loss	12 W

02 MOUNTING AND CONNECTION

- Establish the station safe state and isolate incoming AC/DC power before handling the coded connector.
- Match the actual source to the AC or DC input limits and calculate the power required by the connected segment.
- Use flexible 1.5 mm² (AWG 16) conductors; the specified 3-core sheathed cable diameter must not exceed 8.5 mm.
- Follow the official L, N and protective-conductor diagram; keep the protective conductor longer than the other two.
- The manual specifies external 16 A B- or C-characteristic protection for 1.5 mm² conductors; verify cabinet requirements.

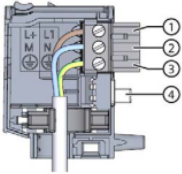
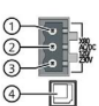
03 OFFICIAL INSTALLATION REFERENCE

Wiring

3.1 Connecting the supply voltage (PS 60W 230VAC)

Connection plug

The connection plug for the power supply is plugged in when the power supply module ships from the factory.
The following figure shows the assignment of the connection plug:

Connector	PS connection	Name
		① L ② N ③ Protective conductor ④ Coding element

Cables

You need flexible cables to wire power to the power supply module. The conductor cross-section must be 1.5 mm² (AWG: 16). You must fuse conductors with a cross-section of 1.5 mm² externally with a 16 A circuit breaker (B or C characteristic). The diameter of a 3 x 1.5 mm² sheathed cable can be no more than 8.5 mm. The ground conductor of flexible cables must be longer than the two other conductors. The fusing must meet the requirements of the corresponding control cabinet.

Reference

You can find additional information about wiring the mains connector in the system manual S7-1500 automation system.
Siemens recommends the use of devices from the SITOP family of products for applications with load power supplies. Wiring information is available in the documentation for the load power supply.

Official manufacturer reference reproduced from Siemens A5E31826073-AB, 11/2020; system manual A5E03461182-AN, 11/2025. Use the current source document and all referenced drawings and notes for installation.

04

CABLE ROUTING AND CONNECTION

- Match the actual source to the AC or DC input limits and calculate the power required by the connected segment.
- Use flexible 1.5 mm² (AWG 16) conductors; the specified 3-core sheathed cable diameter must not exceed 8.5 mm.
- Follow the official L, N and protective-conductor diagram; keep the protective conductor longer than the other two.
- The manual specifies external 16 A B- or C-characteristic protection for 1.5 mm² conductors; verify cabinet requirements.
- Preserve connector coding and strain relief, then verify diagnostics and the engineered CPU response before service.

05

INITIAL SYSTEM CHECKS

- Confirm model identity and compatible system components before energizing.
- Verify wiring, grounding, enclosure, and applicable hazardous-area requirements.
- Check configured diagnostic interrupts, the affected backplane segment and the required safe state before restoring normal operation.
- Record the installed order number and baseline operating condition.

06

CONTROLLED DOCUMENTS

Official source	Siemens A5E31826073-AB, 11/2020; system manual A5E03461182-AN, 11/2025
Product record	6ES7507-0RA00-0AB0
Manufacturer	Siemens
Support	INFO@AMIKON.CN