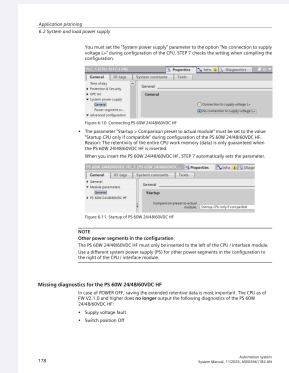


FIELD INSTALLATION QUICK GUIDE

Installation Instructions

Siemens 6ES7505-0RB00-0AB0

SIMATIC S7-1500 PS 60W 24/48/60V DC HF



PRODUCT	6ES7505-0RB00-0AB0
FAMILY	SIMATIC S7-1500
FUNCTION	SIMATIC S7-1500 PS 60W 24/48/60V DC HF
STATUS	Verify exact configuration

Prepared by Amikon Limited from Siemens exact datasheet 08/13/2026; A5E03461182-AN system manual, 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 DC input	24, 48 or 60 V DC
Permissible input-voltage range	Static 19.2-72 V; dynamic 18.5-75.5 V
Backplane infeed power	60 W
Rated input currents	3 A at 24 V; 1.5 A at 48 V; 1.2 A at 60 V
Maximum inrush current	8 A for up to 1 s
Nominal power loss	12 W
Mains-failure stored-energy time	20 ms

02 MOUNTING AND CONNECTION

- Establish the station safe state and isolate the incoming supply before mounting or wiring.
- Insert the HF supply only in slot 0 to the left of the CPU or interface module.
- For the HF arrangement, do not connect the 24 V supply directly to the CPU; follow the system-manual diagram.
- Set the CPU to No connection to supply voltage L+ and the HF module to Startup CPU only if compatible.
- Preserve the coded power connector; the system manual specifies 35 mm jacket stripping and 7-8 mm conductor stripping.

OFFICIAL INSTALLATION REFERENCE

Application planning

6.2 System and load power supply

You must set the "System power supply" parameter to the option "No connection to supply voltage L+" during configuration of the CPU. STEP 7 checks the setting when compiling the configuration.

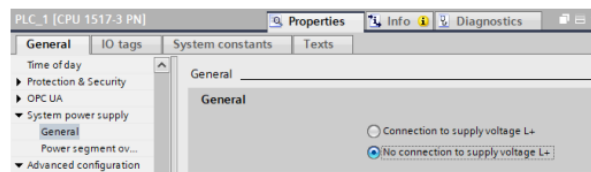


Figure 6-10 Connecting PS 60W 24/48/60VDC HF

- The parameter "Startup > Comparison preset to actual module" must be set to the value "Startup CPU only if compatible" during configuration of the PS 60W 24/48/60VDC HF. Reason: The retentivity of the entire CPU work memory (data) is only guaranteed when the PS 60W 24/48/60VDC HF is inserted. When you insert the PS 60W 24/48/60VDC HF, STEP 7 automatically sets the parameter.

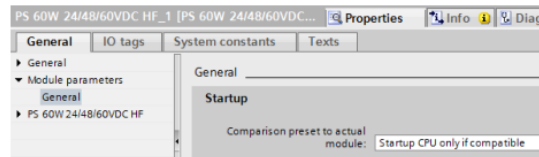


Figure 6-11 Startup of PS 60W 24/48/60VDC HF

NOTE

Other power segments in the configuration

The PS 60W 24/48/60VDC HF must only be inserted to the left of the CPU / interface module. Use a different system power supply (PS) for other power segments in the configuration to the right of the CPU / interface module.

Missing diagnostics for the PS 60W 24/48/60VDC HF

In case of POWER OFF, saving the extended retentive data is most important. The CPU as of FW V2.1.0 and higher does **no longer** output the following diagnostics of the PS 60W 24/48/60VDC HF:

- Supply voltage fault
- Switch position Off

04

CABLE ROUTING AND CONNECTION

- Insert the HF supply only in slot 0 to the left of the CPU or interface module.
- For the HF arrangement, do not connect the 24 V supply directly to the CPU; follow the system-manual diagram.
- Set the CPU to No connection to supply voltage L+ and the HF module to Startup CPU only if compatible.
- Preserve the coded power connector; the system manual specifies 35 mm jacket stripping and 7-8 mm conductor stripping.
- Check CPU article, hardware and firmware eligibility, then validate the intended data retention before service.

05

INITIAL SYSTEM CHECKS

- Confirm model identity and compatible system components before energizing.
- Verify wiring, grounding, enclosure, and applicable hazardous-area requirements.
- Verify the compatible CPU, slot-zero placement and required power/startup parameters before testing the engineered retention function.
- Record the installed order number and baseline operating condition.

06

CONTROLLED DOCUMENTS

Official source	Siemens exact datasheet 08/13/2026; A5E03461182-AN system manual, 11/2025
Product record	6ES7505-0RB00-0AB0
Manufacturer	Siemens
Support	INFO@AMIKON.CN