Siemens 6ES7407-0KA01-0AA0

Installation & Commissioning Guide

01 Define the installed-system task

A PS 407 replacement affects both rack power and backup supervision; record the existing power and battery arrangement before removal.

Technical values apply to the complete 6ES7407-0KA01-0AA0 execution. Retain the actual installed configuration and applicable Siemens instructions.

Product type	PS 407 10A
System	SIMATIC S7-400
Rated AC input	120/230 V AC
Permitted AC input	85-264 V AC
Rated DC input	110/230 V DC

Retain the project and identification record

Keep the complete 6ES7407-0KA01-0AA0 marking, installed configuration and approved application records together. Use the applicable Siemens and machine procedures to plan isolation, replacement and release.

02 Review the signal, power or memory path

The PS 407 10A accepts 120/230 V AC or 110/230 V DC nominal input. Permitted input ranges are 85-264 V AC and 88-300 V DC. For AC service the rated frequency is 50/60 Hz, with a permitted range of 47-63 Hz.

Secondary circuits provide nominal 5.1 V DC and 24 V DC, rated at 10 A for the 5 V circuit and 1 A for the 24 V circuit. Budget the two circuits separately. The standard PS 407 10A must remain distinct from the PS 407 10A R redundant execution.

Permitted DC input	88-300 V DC
Frequency	50/60 Hz rated; 47-63 Hz permitted
Output voltages	5.1 V DC and 24 V DC
Output currents	10 A on the 5 V circuit; 1 A on the 24 V circuit
Protection class	Class I; protective conductor required

Check	Compare the installed configuration with the complete offered reference
Record	Retain the supply, interface or memory settings applicable to this item
Accept	Proceed only when the system record and actual hardware agree

03 Preserve configuration during replacement

Which AC supply range can feed 6ES7407-0KA01-0AA0?

The rated AC input is 120/230 V, with a permitted range of 85-264 V AC and a frequency range of 47-63 Hz.

Can 6ES7407-0KA01-0AA0 operate from DC input?

Yes. Rated DC input is 110/230 V, with a permitted range of 88-300 V DC. Use the prescribed power connector and wiring procedure.

What secondary circuits does 6ES7407-0KA01-0AA0 supply?

The supply provides 5.1 V DC and 24 V DC. The current ratings are 10 A for the 5 V circuit and 1 A for the 24 V circuit.

Does the standby switch isolate the input of 6ES7407-0KA01-0AA0?

No. The standby switch does not disconnect the incoming supply. Use the appropriate upstream isolation before replacement.

Configuration acceptance

The module is protection class I and requires the protective conductor. The standby switch does not disconnect the incoming supply; safe replacement requires upstream isolation. Retain the backup-battery and battery-monitoring configuration, then verify supply indications and rack startup against the approved system record.

04 Commission and resolve diagnostic differences

Is a protective conductor required for 6ES7407-0KA01-0AA0?

Yes. It is protection class I with protective conductor. Preserve the approved protective-earth connection and enclosure bonding.

Is 6ES7407-0KA01-0AA0 the redundant PS 407 10A R execution?

No. This order number identifies the standard PS 407 10A. The redundant PS 407 10A R is a separate execution.

How should the two output loads of 6ES7407-0KA01-0AA0 be checked?

Budget the 5 V and 24 V circuits independently. Verify the actual rack, CPU, interface and I/O loads against both current ratings.

What should be retained when replacing 6ES7407-0KA01-0AA0?

Record the incoming supply, backup batteries, battery-monitoring selection and rack startup condition. After replacement verify supply indications and the approved controller startup sequence.

Release check

Use the approved machine test to verify the intended function, receiving-system response and diagnostic state. Record the final settings and restore the planned operating configuration before service.

05 Handover and lifecycle planning

6ES7407-0KA01-0AA0: The product is at the end of its manufacturer lifecycle.

Support and replacement: Confirm current service and replacement guidance with Siemens using the complete marking, hardware revision and installed configuration. Siemens identifies 6ES7407-0KA02-0AA0 as a successor; verify the application and rack requirements before substitution.

Availability: Apter Power supply availability is confirmed separately from manufacturer lifecycle and support status.

Installed-system handover

Retain the full 6ES7407-0KA01-0AA0 identity, hardware and configuration record, application archive and commissioning results. Confirm the supply, mains connector, batteries and any terminal accessories separately.

Explore other Siemens references

Portfolio navigation only; no compatibility or substitution is implied.

Siemens 6ES7431-7KF00-6AA0	View product
Siemens 6ES7431-7KF10-0AB0	View product
Siemens 6ES7512-1SK01-0AB0	View product

Discuss your complete reference

Siemens 6ES7407-0KA01-0AA0
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Technical reference

Siemens S7-400 Automation System Module Data, A5E00850736-AK, 09/2021