Siemens 6ES7407-0KA01-0AA0

Complete Product Information

Siemens 6ES7407-0KA01-0AA0 is a SIMATIC S7-400 PS 407 power supply accepting AC or DC input and supplying the rack 5 V and 24 V circuits.

Operating context

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.

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.

Configuration snapshot

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
Permitted DC input	88-300 V DC
Frequency	50/60 Hz rated; 47-63 Hz permitted

02 Technical configuration and interfaces

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
Overvoltage category	II
Pollution degree	2

System and configuration relationships

System relationship

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

Configuration boundary

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

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

03 Applications and precautions

Application context

S7-400 rack replacement

Use the PS 407 10A as the documented rack-power execution. Match the complete order number and keep the standard unit distinct from the redundant execution.

AC supply cabinets

Plan AC input wiring, protective conductors and upstream isolation around the installed cabinet supply. Verify the specified voltage and frequency limits before energizing.

DC distribution systems

Check the installed DC network against the PS 407 input range. Use the prescribed connector and wiring arrangement, with the approved upstream isolation procedure.

Power and backup service

Review secondary loading and the installed battery-monitoring arrangement during service. Confirm power indications and rack startup before restoring the controller to operation.

Commissioning precautions

Verify AC limits

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.

Verify DC limits

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

Budget both outputs

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.

Isolate upstream power

The standby switch does not disconnect the incoming supply. Use the appropriate upstream isolation before replacement.

Maintain protective earth

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

Use the correct supply execution

This order number identifies the standard PS 407 10A. The redundant PS 407 10A R is a separate execution.

04 Engineering questions

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.

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.

05 Lifecycle and offered-unit information

Lifecycle status

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.

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

Available unit details

Offered reference: Siemens 6ES7407-0KA01-0AA0. Condition: New, original product.

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

Included items: Confirm the supply, mains connector, batteries and any terminal accessories separately.

Technical reference

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

Discuss your complete reference

Siemens 6ES7407-0KA01-0AA0

New, original product

sales13@apterpower.com | +86 18030235313