FSP FSP400-60PFI

Engineering Installation, Diagnostic and Acceptance Guide

FSP FSP400-60PFI is a 400 W industrial computer power supply. Its exact marking, installed interfaces and companion equipment must be verified before replacement or commissioning.

01 Work package

Complete model	FSP400-60PFI
Product type	400 W industrial computer power supply
Manufacturer	FSP
Supply condition	New, original product
Technical source	cross-checked FSP400-60PFI nameplate data from multiple established industrial-parts records

Field decisions

1 Establish identity

Capture the full marking, installed companion components and baseline before disconnection.

2 Inspect interfaces

Verify mounting, cable, connector, armor, approval and environmental boundaries.

3 Fit the exact chain

Preserve the documented probe-cable-Proximitor or sensor-monitor relationship.

4 Prove response

Use the approved stopped-machine and operating acceptance procedure.

5 Record as left

Save markings, configuration, test values and operating observations.

02 Interface and configuration map

Rated output power	400 W
AC input range	100 to 240 V AC
Input frequency	50/60 Hz
Maximum marked input current	6.3 A
DC rail set	+3.3 V, +5 V, +12 V, -12 V and +5 V standby
12 V architecture	Separate +12 V1 and +12 V2 rails are identified in cross-checked records
Power-good signal	P.G. signal lead identified in cross-checked wiring records

Protective conductor	Ground return conductors form part of the installed harness
Replacement rule	Match every connector position and rail assignment to the removed supply
Evidence boundary	Individual rail-current values are not published here because available records conflict

03 Installation workflow

Record every connector

Photograph and label the full harness before removing any plug.

Discharge before handling

Isolate AC power and follow the approved wait and voltage-verification procedure.

Protect the earth path

Confirm protective-earth continuity between supply and chassis before energizing.

Check airflow

Keep the fan path, inlet and exhaust clear and confirm the installed orientation.

Prove standby first

Verify the standby rail and control signal before permitting full system start-up.

Test under representative load

Record populated-rail voltage and system stability under the approved operating load.

Application checks

Industrial computer service

Restore the exact multi-rail supply arrangement in a documented computer chassis.

Control-system workstation maintenance

Replace a failed supply while preserving motherboard and storage power connections.

Legacy equipment refurbishment

Use the complete label and connector map to support a controlled like-for-like change.

Bench acceptance

Prove rail presence, standby operation and power-good behaviour with an approved load method.

04 Diagnostic decision table

How should the connector map of FSP400-60PFI be captured before removal?	Photograph every plug from two angles, label its chassis destination, and record keying, latch direction, wire colours and unused positions before disconnecting the harness.
Which live checks are most useful when diagnosing FSP400-60PFI?	Use the approved electrical-safety method to verify AC input, standby output, start command, populated DC rails and power-good state under the installed load.
How can an intermittent shutdown involving FSP400-60PFI be separated from a downstream fault?	Correlate each rail with load current and temperature, then isolate approved loads systematically. Do not condemn the supply from an unloaded voltage check alone.
What must be verified before fitting a substitute for FSP400-60PFI?	Compare the complete label, mechanical envelope, fan direction, connector count, keying, pin assignments, standby rail and power-good behaviour.

Release review

Installation relationship	Use the exact model marking and manufacturer wiring or installation information for the delivered hardware.

System boundary	Verify host equipment, companion interfaces, field wiring and configuration before energizing.
Technical reference	cross-checked FSP400-60PFI nameplate data from multiple established industrial-parts records.

Engineering questions

How should the connector map of FSP400-60PFI be captured before removal?	Photograph every plug from two angles, label its chassis destination, and record keying, latch direction, wire colours and unused positions before disconnecting the harness.
Which live checks are most useful when diagnosing FSP400-60PFI?	Use the approved electrical-safety method to verify AC input, standby output, start command, populated DC rails and power-good state under the installed load.
How can an intermittent shutdown involving FSP400-60PFI be separated from a downstream fault?	Correlate each rail with load current and temperature, then isolate approved loads systematically. Do not condemn the supply from an unloaded voltage check alone.
What must be verified before fitting a substitute for FSP400-60PFI?	Compare the complete label, mechanical envelope, fan direction, connector count, keying, pin assignments, standby rail and power-good behaviour.
How should protective-earth integrity be proved for FSP400-60PFI?	With power isolated, inspect the earth conductor and mounting points, then measure continuity using the site-approved method and record the result before energizing.
What thermal evidence should be recorded after installing FSP400-60PFI?	Record inlet and exhaust condition, fan operation and stabilized chassis temperature while the computer runs its representative workload.
Why are individual rail-current values not assigned to FSP400-60PFI on this page?	Available independent records disagree on several rail currents. Use the supplied nameplate and installed-system documentation as the controlling source.
What constitutes an acceptable as-left record for FSP400-60PFI?	Retain label photographs, connector map, earth-continuity result, standby and loaded rail measurements, power-good behaviour and final operating observation.

Acceptance and support

Retain the full marking, installed-chain identities, test readings and approved machine configuration. Confirm the exact offered item and included scope in the written quotation.

Discuss the exact marking and installed application with Apter Power.
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Verified related product references

Related product	531X111PSHARG3
Related product	PSTX300-600-70
Related product	6EP1336-2BA10
Related product	SPS5785 51198651-100

Commissioning record template

Installed asset	Machine, bearing, channel or cabinet reference
Companion identities	Probe, cable, sensor, interface or monitor markings
Mechanical datum	Mounting reference, reach, alignment or sealing condition
Electrical datum	Chain length, connector, shield, supply or input assignment
Before-work baseline	Gap, bias, vibration, continuity or channel observation
As-left result	Final measured value and functional proof
Approval basis	Applicable drawing, control requirement or site procedure
Handover	Technician, date, revision and maintenance-record location

Handover note

A replacement is complete only after the installed identity, physical interfaces, measured response and configuration record agree. Escalate any mismatch before the channel returns to protection or monitoring service.

Release checklist

Identity accepted	Complete marking agrees with the order, photographs and installed asset record.
Interfaces accepted	Mechanical fit, connector, wiring and companion components match the approved design.
Environment accepted	Temperature, contamination, vibration and route protection remain inside documented limits.

Verification evidence

Nameplate evidence Full marking, suffix and revision photographs	Related reference 6EP1336-2BA10
Interface evidence Connector, mounting and companion-hardware record	Related reference SPS5785 51198651-100