Siemens 6EP1336-2BA10

Engineering Installation, Diagnostic and Acceptance Guide

Siemens 6EP1336-2BA10 is a SITOP PSU100S regulated power supply. Its exact order identity must be matched with the installed supply or automation configuration before replacement.

01 Work package

Complete model	6EP1336-2BA10
Product type	SITOP PSU100S regulated power supply
Manufacturer	Siemens
Supply condition	New, original product
Technical source	Siemens Industry Mall technical data for 6EP1336-2BA10

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

Product family	SITOP PSU100S
Input system	Single-phase AC
Rated input voltage	120/230 V AC, automatic range selection
Input ranges	85 to 132 V AC and 176 to 264 V AC
Line frequency	47 to 63 Hz
Input current	7.5 A at 120 V; 3.5 A at 230 V
Maximum inrush current	11 A at 25 deg C

Rated output	24 V DC, 20 A
Adjustable output	24 to 28 V DC
Maximum output power	480 W
Mains buffering	20 ms under stated conditions
Residual ripple	150 mV
Status indication	Green LED for 24 V OK
Relay contact	Normally open, 24 V OK; 50 V DC / 0.3 A maximum
Parallel operation	Supported subject to manufacturer installation rules
Protection and cooling	Built-in electronic protection; natural convection installation requirements apply

03 Installation workflow

Isolate both input poles

Follow the site lockout and verification procedure before touching input or output terminals.

Check input range

Confirm the actual AC source and frequency are inside the documented range.

Maintain convection clearance

Keep ventilation openings and required installation spaces unobstructed.

Size output conductors

Calculate current, voltage drop and protective-device coordination for each branch.

Verify parallel configuration

Use only the manufacturer-approved method when supplies operate in parallel.

Prove loaded output

Measure output voltage, load current, LED and relay status under the expected operating load.

Application checks

PLC and distributed I/O power

Supply a documented 24 V DC control load within the calculated steady-state and transient demand.

Control-panel DC distribution

Feed protected branch circuits where conductor drop, selectivity and fault energy have been reviewed.

Sensor and actuator supply

Power compatible field devices while keeping load peaks and cable drop inside the approved design.

Power-supply replacement

Match input range, output rating, protection, mounting and status-contact wiring before changeover.

04 Diagnostic decision table

How should output-current margin be calculated for 6EP1336-2BA10?	Sum steady loads, startup and pulse demands, conductor losses and future allowance. Confirm the worst credible load remains within the 20 A rating and thermal installation conditions.

How should upstream protection be selected for 6EP1336-2BA10?	Use the manufacturer input data, inrush current, conductor rating and local rules to select isolation and protection. Verify discrimination with adjacent panel devices.
What checks are needed before paralleling 6EP1336-2BA10?	Confirm that parallel operation is permitted for the exact devices, equalize output settings and conductor impedance, and apply the manufacturer current-sharing and redundancy guidance.
How can the 24 V OK relay of 6EP1336-2BA10 be acceptance-tested?	Monitor the contact while output is established, loaded and removed under an approved test. Compare contact state with measured output voltage rather than relying only on the green LED.

Release review

Installation relationship	Use the exact order number and manufacturer wiring or installation data for the delivered revision.
System boundary	Verify companion equipment, field wiring and configuration before energizing.
Technical reference	Siemens Industry Mall technical data for 6EP1336-2BA10.

Engineering questions

How should output-current margin be calculated for 6EP1336-2BA10?	Sum steady loads, startup and pulse demands, conductor losses and future allowance. Confirm the worst credible load remains within the 20 A rating and thermal installation conditions.
How should upstream protection be selected for 6EP1336-2BA10?	Use the manufacturer input data, inrush current, conductor rating and local rules to select isolation and protection. Verify discrimination with adjacent panel devices.
What checks are needed before paralleling 6EP1336-2BA10?	Confirm that parallel operation is permitted for the exact devices, equalize output settings and conductor impedance, and apply the manufacturer current-sharing and redundancy guidance.
How can the 24 V OK relay of 6EP1336-2BA10 be acceptance-tested?	Monitor the contact while output is established, loaded and removed under an approved test. Compare contact state with measured output voltage rather than relying only on the green LED.
How should the complete marking of 6EP1336-2BA10 be recorded before removal?	Photograph the full order identity, installed position, companion components and cable route. Save the stopped-machine baseline so the replacement can be returned to the same documented configuration.
Which compatibility check is most important before installing 6EP1336-2BA10?	Confirm that every companion component belongs to the documented SITOP PSU100S 24 V DC power-supply system. Connector fit alone does not establish electrical calibration or mechanical compatibility.
How should cable and connector integrity be tested for 6EP1336-2BA10?	Isolate the channel, inspect contacts for moisture, contamination and damage, verify continuity and insulation with an approved method, and support the cable so the connector carries no tensile load.
What commissioning evidence should be retained for 6EP1336-2BA10?	Retain full markings, mechanical datum, companion identities, wiring or chain-length checks, as-left measurements and the operating response accepted by the maintenance authority.

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.
sales13@apterpower.com | +86 18030235313

Verified related product references

Related product	6EP1336-2BA10
Related product	6ES7321-1BH10-0AA0
Related product	6ES5470-4UC12
Related product	6DD1601-0AE0

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.
Configuration accepted	Hardware assignment, chain length or supply settings agree with the installed configuration.