Siemens 6EP1336-2BA10

Technical Reference and System Integration Map

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 Exact identity and evidence boundary

Exact offered identity	6EP1336-2BA10
Product type	SITOP PSU100S regulated power supply
Manufacturer	Siemens
System or platform	SITOP PSU100S 24 V DC power-supply system
Evidence scope	Values are taken from the manufacturer product data for the exact order number; installation still depends on the delivered revision and approved system design.

Technical purpose

The complete 6EP1336-2BA10 order number establishes the product family and exact electrical function; verify the installed revision, wiring and companion equipment before release.

Verified engineering data

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

02 Parameter groups and system relationship

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

System integration map

01 **Identity**

Confirm the complete marking and supplied revision before applying any base-family value.

02 **Interfaces**

Match every mechanical, electrical and communication interface to the installed design.

03 **Companion equipment**

Preserve the documented probe, cable, monitor, connector, supply or controller relationship.

04 **Configuration**

Record the installed settings, channel assignment and baseline before replacement.

05 **Acceptance**

Prove the static reading and operating response against the approved maintenance record.

Operating interpretation

6EP1336-2BA10 converts a single-phase AC supply into regulated 24 V DC for industrial control loads. The dual input ranges, 20 A output and adjustable voltage support centralized control-power distribution where conductor drop and load demand have been calculated.

Input protection, conductor sizing, upstream isolation and ventilation must follow the manufacturer data and local electrical rules. Maintain the required clearances for natural convection and confirm that the installed AC source falls inside the selected operating range.

The 24 V OK LED and relay contact support local and remote status supervision, but they do not replace load-side voltage and fault checks. Commissioning should record no-load and loaded output voltage, load current, signalling state and recovery after the approved supply interruption test.

Application and compatibility boundaries

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.

03 Diagnostic and acceptance reference

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.

Diagnostic and acceptance reference — continued

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.

Commissioning sequence

01

Before removal

Photograph full markings, terminations, companion identities and the installed mechanical datum.

02

Bench review

Check the offered item for revision, connector condition and configuration-sensitive differences.

03

Installation

Apply the manufacturer mounting, wiring, shielding, ventilation and environmental rules.

04

Prove and close

Verify supply, continuity, gap, bias or channel state, compare the operating response with the accepted baseline, and save the as-left record before release.

Technical notes

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 decision log

Identity decision	Exact offered marking accepted / held for clarification
Compatibility decision	Installed interfaces and companion equipment confirmed / action required
Operating proof	Static and dynamic checks accepted / additional test required

04 Field documentation worksheet

Use this model-specific worksheet to keep the offered identity, installed-system evidence and acceptance record together.

Additional engineering questions

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.

Field record

Complete order marking	6EP1336-2BA10
Revision and approval marks	Record from the supplied nameplate or label
Installed system and channel	Record cabinet, rack, slot, monitor or machine location
Companion equipment	Record the matched cable, connector, base, monitor, supply or controller identities
Interface check	Record mechanical fit, terminal assignment, polarity, shielding and communication details
Pre-removal baseline	Record the accepted static reading, channel state and operating response
As-left verification	Record the measured result after installation and the approved acceptance method

Release evidence package

Identity evidence	Nameplate, label and complete-order photographs
Interface evidence	Connector, terminal, cable, mounting and companion-equipment record
Configuration evidence	Installed assignment, setting, revision or chain-length record
Test evidence	Static measurement, channel state and operating-response result
Release evidence	Exceptions, corrective actions, reviewer and approval date

Related Apter Power product references

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

Discuss the exact marking and installed application with Apter Power.
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