# Siemens 6EP1333-2BA00

## SITOP Power Supply

Rail-mounted switched-mode power supply providing a regulated 24 V DC, 5 A output for industrial control loads.

| 01 | 02 | 03 | 04 |
| --- | --- | --- | --- |
| 24 V DC nominal output | 5 A rated output current | 120/230 V AC input selection | Adjustable 22.8-26.4 V DC output |

## System position

| | | | |
| --- | --- | --- | --- |
| AC feeder | 6EP1333-2BA00 conversion | 24 V DC distribution | Control loads |

## Evidence boundary

Only verified exact-model facts and explicitly identified family context are included. Similar codes are not treated as substitutes.

02 / CAPABILITY MAP

# Engineering domains and architecture

| | |
|---|---|
| Input | 120/230 V AC, 50/60 Hz |
| Input tolerance | 93-132 V AC or 187-264 V AC |
| Output | 24 V DC nominal, 5 A |
| Adjustment | 22.8-26.4 V DC |

| | |
|---|---|
| Efficiency | 87% |
| Protection | IP20 |
| Short-circuit behavior | Current limiting with automatic restart |
| Mounting | Vertical; terminals at the bottom |

## Interface architecture

| | | | |
|---|---|---|---|
| **L1 / N** | **PE** | **AC 120 V jumper** | **L+ / M** |
| AC input | Protective earth | Input-range configuration | Regulated DC output |

# Use cases with controlled scope

| Control Panels | Machine Automation | Retrofit Maintenance | Commissioning Benches |
|---|---|---|---|
| Regulated 24 V DC supply for PLC, relay and interface circuits. | Central auxiliary supply in legacy industrial machinery. | Exact-code replacement where the installed drawing calls for 6EP1333-2BA00. | Controlled 24 V DC source for documented system acceptance tests. |

## INTEGRATION CHECKPOINTS

| Identity | Host system | Configuration | Acceptance |
|---|---|---|---|
| Siemens 6EP1333-2BA00 is preserved in full. | Rack, slot and surrounding hardware are verified. | Project, firmware and settings are recorded. | Functional evidence is captured before release. |

## System relationship

| | | | |
|---|---|---|---|
| AC feeder | 6EP1333-2BA00 conversion | 24 V DC distribution | Control loads |

# Decision matrix

| Question | Answer |
| --- | --- |
| What output does Siemens 6EP1333-2BA00 provide? | It provides a nominal 24 V DC output rated at 5 A. |
| Can Siemens 6EP1333-2BA00 accept 120 V and 230 V AC? | Yes. The documented input arrangement covers 120/230 V AC; the jumper and wiring must match the site supply. |
| Is Siemens 6EP1333-2BA00 output adjustable? | The documented adjustment range is 22.8 to 26.4 V DC. |
| How should Siemens 6EP1333-2BA00 be mounted? | Install it vertically with the terminals at the bottom and maintain the specified ventilation clearance. |
| What should be checked before energizing Siemens 6EP1333-2BA00? | Check the exact model, input selection, protective earth, polarity, terminal tightness and unloaded output voltage. |

## Eight release precautions

| | | | |
| --- | --- | --- | --- |
| **1** Verify the complete 6EP1333-2BA00 nameplate before replacement. | **2** Confirm whether the installation requires the 120 V jumper configuration. | **3** Isolate the AC feeder and prove absence of voltage before wiring. | **4** Connect protective earth before applying line power. |
| **5** Keep the documented vertical orientation with terminals at the bottom. | **6** Maintain 50 mm free space above and below for natural cooling. | **7** Use conductors and tightening torque within the documented terminal limits. | **8** Measure the 24 V DC output before reconnecting sensitive loads. |

# Product verification and support

## Apter Power verification record

| | |
|---|---|
| **Model identity** | Keep the complete Siemens model code and every suffix in purchasing, installation and acceptance records. |
| **Verification boundary** | Confirm the physical nameplate, installed position and revision-controlled project documents before field work. |
| **Apter Power support** | Use the contact details and Apter Power website links in this document for product and sourcing support. |

| Related Apter Power references | Scope note |
|---|---|
| Siemens 39SDM024DCCBN 16101-174/8 | Portfolio reference only; verify compatibility independently. |
| Siemens 16101-174/10 | Portfolio reference only; verify compatibility independently. |

| | | |
|---|---|---|
| | Apter Power technical and sourcing support<br>sales7@apterpower.com +86 180 3017 5807 www.apterpower.com<br>Scan for the Apter Power contact page. | Model record Siemens 6EP1333-2BA00 SITOP Power Supply Verify the complete nameplate before installation. |