

6EP1333-4BA00

SIMATIC PM 1507 Load Power Supply

Siemens 6EP1333-4BA00 is a SIMATIC PM 1507 stabilized 24 Vdc load power supply. It feeds S7-1500 or ET 200MP load circuits from a 120/230 Vac single-phase supply.

PRODUCT SNAPSHOT

BRAND

Siemens

FAMILY

SIMATIC S7-1500 / ET 200MP Power Modules

PART

6EP1333-4BA00

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PRODUCT OVERVIEW

Siemens 6EP1333-4BA00 is a SIMATIC PM 1507 stabilized 24 Vdc load power supply. It feeds S7-1500 or ET 200MP load circuits from a 120/230 Vac single-phase supply.

- 1

Converts 120/230 Vac mains power to stabilized 24 Vdc
- 2

Supplies load circuits in SIMATIC S7-1500 and ET 200MP installations
- 3

Buffers brief mains interruptions at rated output current
- 4

Reports operating status through device LEDs

SYSTEM COMPONENTS

- SIMATIC S7-1500 mounting rail
- 120/230 Vac protected feeder
- 24 Vdc load distribution
- protective-conductor connection

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
6EP1434-2BA20	SITOP PSU300S power supply	Open product page
6ES7414-3EM07-0AB0	SIMATIC S7-400 CPU	Open product page
6GK1561-2AA00	SIMATIC NET communication processor	Open product page

TECHNICAL DATA

PARAMETER	VALUE
Input network	Single-phase AC
Rated input voltage	120/230 Vac
Input voltage range 1	85 to 132 Vac
Input voltage range 2	170 to 264 Vac
Line frequency	45 to 65 Hz
Input current at 120 V	3.7 A
Input current at 230 V	1.7 A
Power-failure buffering	20 ms minimum at 93/187 V
Inrush current	62 A maximum at 25 degC

PARAMETER	VALUE
Rated output power	192 W
Output tolerance	1%
Residual ripple	50 mV maximum
Voltage peak	150 mV maximum
Efficiency	90%
Power loss	19.6 W typical
Current limitation	8.4 to 9.6 A; 9 A typical
Short-circuit current	35 A typical for 70 ms
Overvoltage limit	Less than 28.8 V

TECHNICAL NOTE

De-energize the AC feeder, confirm range selection and protective conductor, then verify 24 Vdc polarity, output loading and LED status before reconnecting PLC loads.

Rated output current	8 A
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Protection class	Class I with protective conductor
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APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

S7-1500 control-cabinet load supply

Converts 120/230 Vac mains power to stabilized 24 Vdc

ET 200MP station power distribution

Supplies load circuits in SIMATIC S7-1500 and ET 200MP installations

24 Vdc sensor and actuator supply

Buffers brief mains interruptions at rated output current

PLC cabinet power-supply replacement

Reports operating status through device LEDs

PRODUCT PRECAUTIONS

- 1 Verify the complete 6EP1333-4BA00 article number before installation.
- 2 Open and secure the upstream AC isolator before terminal work.
- 3 Confirm the 120/230 Vac feeder and recommended protective device.
- 4 Connect the protective conductor before energizing line and neutral.
- 5 Observe terminal polarity and conductor sizing on the 24 Vdc output.
- 6 Check the connected load does not exceed the rated output current.
- 7 Energize without sensitive loads first and verify the device LED state and output voltage.
- 8 Reconnect PLC loads in a controlled sequence and confirm stable 24 Vdc under operation.

ENGINEER FAQ

Q1 Does 6EP1333-4BA00 match SIMATIC S7-1500 mounting rail in a S7-1500 control-cabinet load supply installation?

Verify the complete 6EP1333-4BA00 marking, the documented SIMATIC S7-1500 / ET 200MP Power Modules position and the installed SIMATIC S7-1500 mounting rail before fitting the assembly.

Q3 Which SIMATIC S7-1500 / ET 200MP Power Modules records should be captured before removing 6EP1333-4BA00?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with 6EP1333-4BA00 before disconnection.

Q5 Which 120/230 Vac protected feeder condition should be checked when 6EP1333-4BA00 reports an abnormal state?

Check the 120/230 Vac protected feeder supply, seating and connection first, then compare channel diagnostics with the recorded 6EP1333-4BA00 baseline.

Q7 What maintenance evidence is required after 6EP1333-4BA00 is used for 24 Vdc sensor and actuator supply?

Retain the nameplate record, corrective action, final diagnostics and a controlled 24 vdc sensor and actuator supply functional-test result for 6EP1333-4BA00.

Q2 How should 6EP1333-4BA00 be wired when it must converts 120/230 vac mains power to stabilized 24 vdc?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for 6EP1333-4BA00; then continuity-test the affected path.

Q4 What controlled test confirms that 6EP1333-4BA00 can supplies load circuits in simatic s7-1500 and et 200mp installations?

Apply the approved field or simulated stimulus, observe the SIMATIC S7-1500 / ET 200MP Power Modules indication and confirm the intended response without bypassing the normal interlocks.

Q6 Can 6EP1333-4BA00 be moved directly into ET 200MP station power distribution without validating protective-conductor connection?

No. Confirm the protective-conductor connection, revision, connection scheme and SIMATIC S7-1500 / ET 200MP Power Modules configuration before transferring 6EP1333-4BA00 to that duty.

Q8 How should 6EP1333-4BA00 be returned to service in PLC cabinet power-supply replacement?

Restore power under control, verify buffers brief mains interruptions at rated output current, exercise the intended signal path and release 6EP1333-4BA00 only after the SIMATIC S7-1500 / ET 200MP Power Modules remains in its approved operating state.