

INDUSTRIAL AUTOMATION PRODUCT

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.

IDENTITY	VERIFIED VALUE
Manufacturer	Siemens
System family	SIMATIC S7-1500 / ET 200MP Power Modules
Part number	6EP1333-4BA00
Country	
HS code	8537101190

APTER POWER SALES TEAM

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Technical Specifications

Technical values below are limited to the named Siemens product record.

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
Inrush duration	3 ms maximum
Feeder protection	16 A characteristic B or 10 A characteristic C
Rated output voltage	24 Vdc
Rated output current	8 A

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
Parallel operation	2 units for power increase
Electrical isolation	Primary/secondary
Degree of protection	IP20
Protection class	Class I with protective conductor

VERIFIED PRODUCT RECORD

DATA GROUP	VERIFIED VALUE
Installed host / carrier	SIMATIC S7-1500 mounting rail
Companion hardware	120/230 Vac protected feeder
Field connection	24 Vdc load distribution
Primary system function	Converts 120/230 Vac mains power to stabilized 24 Vdc
Controlled acceptance duty	S7-1500 control-cabinet load supply

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System Role and Architecture

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.

FUNCTION 1

Converts 120/230 Vac mains power to stabilized 24 Vdc

FUNCTION 2

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

FUNCTION 3

Buffers brief mains interruptions at rated output current

FUNCTION 4

Reports operating status through device LEDs

Matched system components

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

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	SIMATIC S7-1500 mounting rail
Companion hardware	120/230 Vac protected feeder
Field connection	24 Vdc load distribution
Primary system function	Converts 120/230 Vac mains power to stabilized 24 Vdc
Controlled acceptance duty	S7-1500 control-cabinet load supply

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Applications and Engineering Context

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

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.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	6EP1333-4BA00 / 6EP1333-4BA00 recorded
Physical interface	SIMATIC S7-1500 mounting rail
Companion check	120/230 Vac protected feeder
Functional proof	Converts 120/230 Vac mains power to stabilized 24 Vdc
Application test	S7-1500 control-cabinet load supply

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Engineering 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.

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

MANUFACTURER SOURCE RECORD

SIMATIC PM 1507 Load Power Supply Manual
A5E31691095-AA

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