

INDUSTRIAL AUTOMATION PRODUCT

6EP3334-8SB00-0AY0

SITOP PSU8200 Regulated Power Supply

Siemens 6EP3334-8SB00-0AY0 is a SITOP PSU8200 single-phase regulated power supply. It delivers 24 V DC at 10 A for industrial control and automation loads.

IDENTITY	VERIFIED VALUE
Manufacturer	Siemens
System family	SITOP PSU8200 industrial power supply
Part number	6EP3334-8SB00-0AY0
Country	Germany
HS code	8537101190

APTER POWER SALES TEAM

WHATSAPP / PHONE +86 180 3023 5313
EMAIL sales13@apterpower.com
WEBSITE www.apterpower.com



2

Technical Specifications

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

PARAMETER	TECHNICAL VALUE
Input voltage	120/230 V AC automatic range
Input ranges	85-132 V AC; 170-264 V AC
Input frequency	47 to 63 Hz
Input current at 120 V	4 A
Input current at 230 V	1.9 A
Inrush current	10 A maximum
I ² t	0.3 A ² s maximum
Mains buffering	35 ms minimum
Output voltage	24 V DC
Adjustable output	24 to 28.8 V DC
Rated output current	10 A
Rated output power	240 W
Total tolerance	3%
Line regulation	0.1%
Load regulation	0.3%
Residual ripple	50 mV maximum
Peak voltage	200 mV maximum
Status indication	Green LED: 24 V OK

3

System Role and Architecture

Siemens 6EP3334-8SB00-0AY0 is a SITOP PSU8200 single-phase regulated power supply. It delivers 24 V DC at 10 A for industrial control and automation loads.

FUNCTION 1

Converts single-phase AC mains into regulated 24 V DC control power

FUNCTION 2

Maintains the configured output across the automatic input-voltage ranges

FUNCTION 3

Buffers brief mains interruptions for connected automation loads

FUNCTION 4

Provides local output-voltage status through the front green LED

Matched system components

- single-phase AC feeder
- 24 V DC control distribution
- SITOP-compatible protection and redundancy accessories
- automation cabinet loads

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	single-phase AC feeder
Companion hardware	24 V DC control distribution
Field connection	SITOP-compatible protection and redundancy accessories
Primary system function	Converts single-phase AC mains into regulated 24 V DC control power
Controlled acceptance duty	PLC and distributed-I/O power

4

Applications and Engineering Context

PLC and distributed-I/O power

Converts single-phase AC mains into regulated 24 V DC control power

Industrial control-panel 24 V distribution

Maintains the configured output across the automatic input-voltage ranges

Machine sensor and actuator supply

Buffers brief mains interruptions for connected automation loads

Process automation cabinet power

Provides local output-voltage status through the front green LED

TECHNICAL NOTE

Select the correct upstream protection, earth the supply as specified, set output voltage with loads isolated, and verify 24 V stability under the documented startup and load conditions.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	6EP3334-8SB00-0AY0 / 6EP3334-8SB00-0AY0 recorded
Physical interface	single-phase AC feeder
Companion check	24 V DC control distribution
Functional proof	Converts single-phase AC mains into regulated 24 V DC control power
Application test	PLC and distributed-I/O power

5

Engineering Precautions

1

Verify 6EP3334-8SB00-0AY0 and the 10 A rating before installation.

2

Isolate both AC input and downstream 24 V DC distribution.

3

Confirm the automatic input range and upstream protective device.

4

Maintain protective-earth continuity and cabinet clearances.

5

Check conductor size, polarity, and terminal clamping before energization.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
6EP1434-2BA20	SITOP industrial power supply	Open product page
6ES7432-1HF00-0AB0	SIMATIC S7-400 analog output module	Open product page

MANUFACTURER SOURCE RECORD

SITOP PSU8200 1AC 24 V/10 A Product Data
6EP3334-8SB00-0AY0

APTER POWER SALES TEAM

WHATSAPP / PHONE +86 180 3023 5313
EMAIL sales13@apterpower.com
WEBSITE www.apterpower.com

