

6ES7305-1BA80-0AA0

SIMATIC PS 305 Regulated Power Supply

Siemens 6ES7305-1BA80-0AA0 is a SIMATIC PS 305 regulated power supply for an S7-300 installation. It converts a 24–110 V DC input to a regulated 24 V DC, 2 A output.

PRODUCT SNAPSHOT

BRAND
Siemens

FAMILY
SIMATIC S7-300 power supply

PART
6ES7305-1BA80-0AA0

DOCUMENT STATUS
Controlled engineering copy

APTER POWER

WHATSAPP / PHONE

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WEBSITE

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PRODUCT OVERVIEW

Siemens 6ES7305-1BA80-0AA0 provides providing regulated 24 V DC power from a documented 24–110 V DC source to an S7-300 station in a documented SIMATIC S7-300 power supply installation.

 PS 305 regulated supply

 24–110 V DC input

 24 V DC output

 2 A rated output current

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1 General Electric IS420ESWBH2A	2 General Electric IS220PSFDH1A	3 General Electric IS200TRPGH2B-421084
4 General Electric IS200SHRAH2A	5 General Electric IS200WROBH1A	6 General Electric HE693SNP900
7 General Electric IC660BBD022-855138	8 General Electric RE421REPAH1APR4	9 General Electric 8851-LC-MT

SYSTEM COMPONENTS

DOCUMENTED COMPONENT	ROLE IN SYSTEM
Proximity probe	Matched extension cable
Proximitior Sensor	AISI 4140 target

ENGINEERING CONTEXT

The component remains matched to its documented cabinet position, power source, interfaces and approved engineering configuration. Commissioning restores that architecture and verifies the affected control or communication function under controlled conditions.

TECHNICAL DATA

PARAMETER	VALUE	PARAMETER	VALUE
Product designation	SIMATIC PS 305 regulated power supply	Rated output voltage	24 V DC
Host system	SIMATIC S7-300	Rated output current	2 A
Input type	DC	Application class	Outdoor-design S7-300 power supply
Input voltage range	24 to 110 V DC	Lifecycle note	Phase-out announced
Output type	Regulated DC		

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TECHNICAL NOTE

Install 6ES7305-1BA80-0AA0 only in the documented SIMATIC S7-300 power supply position and preserve its exact wiring, interfaces and configuration. After controlled energization, verify diagnostics and providing regulated 24 V DC power from a documented 24–110 V DC source to an S7-300 station before service release.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

DC-supplied S7-300 station

Generates the regulated controller supply from an available DC source.

Outdoor control cabinet

Supports the documented outdoor-design power arrangement.

Legacy power-supply replacement

Restores the exact input and output wiring without changing protection.

Power commissioning

Checks polarity, regulated output and controller startup under control.

PRODUCT PRECAUTIONS

1

Confirm the complete 6ES7305-1BA80-0AA0 marking and the documented SIMATIC PS 305 Regulated

2

Place the machine, controller and affected process in the approved maintenance state.

3

Isolate all hazardous energy and prove the safe state before disconnecting hardware.

4

Record the installed position, every terminal or port, and the active engineering configuration.

5

Verify the exact electrical, interface and environmental limits in the manufacturer evidence.

6

Restore protective earth, shielding, wiring, communications and the approved project or

7

Energize under control and review all device, rack, network and process diagnostics.

8

Complete a controlled functional test of providing regulated 24 V DC power from a documented 24–110 V

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ENGINEER FAQ

Q1 Why must the exact product designation value be confirmed when commissioning 6ES7305-1BA80-0AA0?

The official exact-article record identifies 6ES7305-1BA80-0AA0 as SIMATIC PS 305 regulated power supply; match the full marking before installation.

Q2 Why must the exact host system value be confirmed when commissioning 6ES7305-1BA80-0AA0?

For 6ES7305-1BA80-0AA0, the official exact-article evidence specifies host system as SIMATIC S7-300. Record the installed condition and test the affected function before release.

Q3 Which channel characteristic input type documented for 6ES7305-1BA80-0AA0?

For 6ES7305-1BA80-0AA0, the official exact-article evidence specifies input type as DC. Record the installed condition and test the affected function before release.

Q4 What cabinet allowance applies to 6ES7305-1BA80-0AA0 for input voltage range?

For 6ES7305-1BA80-0AA0, the official exact-article evidence specifies input voltage range as 24 to 110 V DC. Record the installed condition and test the affected function before release.

Q5 How many or what type of output type documented for 6ES7305-1BA80-0AA0?

For 6ES7305-1BA80-0AA0, the official exact-article evidence specifies output type as Regulated DC. Record the installed condition and test the affected function before release.

Q6 Which supply condition applies to 6ES7305-1BA80-0AA0 for rated output voltage?

For 6ES7305-1BA80-0AA0, the official exact-article evidence specifies rated output voltage as 24 V DC. Record the installed condition and test the affected function before release.

Q7 How must technicians verify applies to 6ES7305-1BA80-0AA0 for rated output current?

For 6ES7305-1BA80-0AA0, the official exact-article evidence specifies rated output current as 2 A. Record the installed condition and test the affected function before release.

Q8 Why must the exact application class value be confirmed when commissioning 6ES7305-1BA80-0AA0?

For 6ES7305-1BA80-0AA0, the official exact-article evidence specifies application class as Outdoor-design S7-300 power supply. Record the installed condition and test the affected function before release.

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SOURCE Siemens SiePortal exact-article record for 6ES7305-1BA80-0AA0 | Official manufacturer evidence verified 28 September 2026

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