

INDUSTRIAL AUTOMATION PRODUCT

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.

CONTROLLED ENGINEERING COPY

IDENTITY	VERIFIED VALUE
Manufacturer	Siemens
System family	SIMATIC S7-300 power supply
Part number	6ES7305-1BA80-0AA0
Document status	Controlled product and system reference

DOCUMENT SCOPE

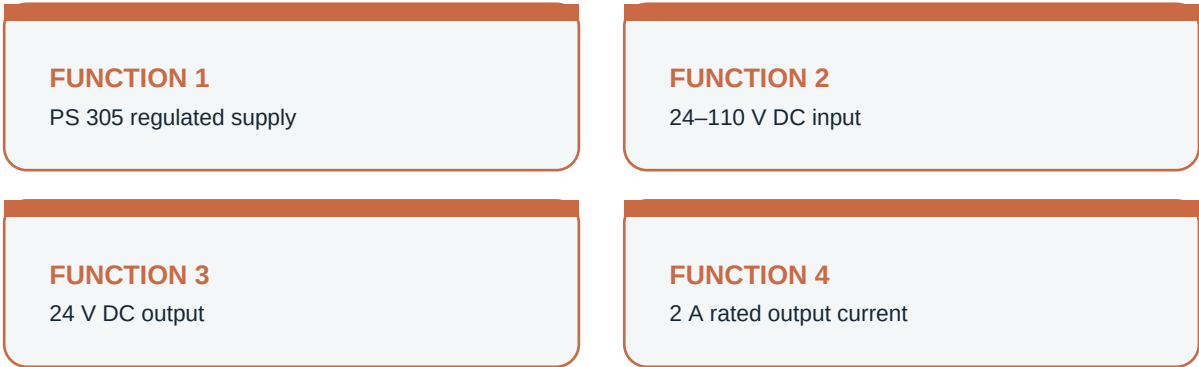
Exact article identity, official technical data, host matching, installation checks, applications, precautions and controlled acceptance evidence.

MODEL-SPECIFIC ENGINEERING 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.

System Role and Architecture

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.



RELATED APTER POWER PAGES					
1	General Electric 489-P5-HI-A20-E	2	General Electric MVTP31V1CB0751E	3	General Electric DS215TCCAG1BZZ01
4	General Electric IS210AEAAH2BJE	5	General Electric IS200HSLAH1ADE	6	General Electric IS210MVR AH2A-IS200MVR AH2AFC
7	General Electric IS200BPPBH2CAA	8	General Electric IS215PMVPH1AA-IS200MVREH1ABB	9	General Electric IC693MDR390

MATCHED SYSTEM COMPONENTS

NO.	DOCUMENTED COMPONENT / ROLE
01	SIMATIC S7-300 power supply
02	Matched SIMATIC S7-300 power supply host or field system
03	Documented power, signal, communication and protective interfaces
04	Approved engineering configuration and acceptance record

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Host identity	SIMATIC S7-300 power supply
Interface role	providing regulated 24 V DC power from a documented 24–110 V DC source to an S7-300 station
Field / power context	documented SIMATIC S7-300 power supply installation
Commissioning evidence	Identity, wiring, configuration, diagnostics and controlled response recorded

INSTALLATION AND CONNECTION CHECKS

- 1

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

Technical Specifications

Technical values below are limited to the named product record and directly applicable manufacturer documentation.

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		

RELATED PRODUCT PAGES

1General Electric 489-P5-HI-A20-E

2General Electric MVTP31V1CB0751E

3General Electric DS215TCCAG1BZZ01

4General Electric IS210AEAAH2BJE

5General Electric IS200HSLAH1ADE

6General Electric IS210MVR AH2A-IS200MVR AH2AFC

7General Electric IS200BPPBH2CAA

8General Electric IS215PMVPH1AA-IS200MVREH1ABB

9General Electric IC693MDR390

ENGINEERING BOUNDARY

Confirm 6ES7305-1BA80-0AA0, its exact SIMATIC S7-300 power supply host, power source, installed position, interfaces, configuration, diagnostics and controlled acceptance evidence before release.

PRE-INSTALLATION CHECKS

- 1

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

Applications and Engineering Context

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.

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.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	6ES7305-1BA80-0AA0 recorded
Host / carrier	SIMATIC S7-300 power supply
Physical interface	Installed terminals, ports and signal paths matched to the as-found record
Configuration	Approved hardware and engineering configuration restored
Functional proof	Controlled test confirms providing regulated 24 V DC power from a documented 24–110 V DC source to an S7-300 station

IMPORTANT NOTICE

Confirm 6ES7305-1BA80-0AA0, its exact SIMATIC S7-300 power supply host, power source, installed position, interfaces, configuration, diagnostics and controlled acceptance evidence before release.

Related Products and Source Record

Brand-qualified Apter Power navigation links are provided for system planning only; manufacturer evidence remains the named source record.

RELATED PRODUCTS ON APTER POWER

1

General Electric 489-P5-HI-A20-E

View General Electric 489-P5-HI-A20-E page

2

General Electric MVTP31V1CB0751E

View General Electric MVTP31V1CB0751E page

3

General Electric DS215TCCAG1BZZ01

View General Electric DS215TCCAG1BZZ01 page

4

General Electric IS210AEAAH2BJE

View General Electric IS210AEAAH2BJE page

5

General Electric IS200HSLAH1ADE

View General Electric IS200HSLAH1ADE page

6

General Electric IS210MVR AH2A-IS200MVR AH2AFC

View General Electric IS210MVR AH2A-IS200MVR AH2AFC page

7

General Electric IS200BPPBH2CAA

View General Electric IS200BPPBH2CAA page

8

General Electric IS215PMVPH1AA-IS200MVREH1ABB

View General Electric IS215PMVPH1AA-IS200MVREH1ABB page

9

General Electric IC693MDR390

View General Electric IC693MDR390 page

MANUFACTURER SOURCE RECORD

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

APTER POWER SALES TEAM

WHATSAPP / PHONE

+86 180 3023 5313

EMAIL

sales13@apterpower.com

WEBSITE

www.apterpower.com



RECOMMENDATION SCOPE

These links support product navigation and comparison. Technical values in this document are sourced only from the manufacturer record above.