

Product dashboard

Siemens 6DD1683-0BC0 is the SIMADYN D SP8 power supply unit with a 24 V DC input. It supplies 5 V DC at 52 A and positive and negative 15 V rails for the configured rack, with forced cooling by an integrated fan.

Exact model

6DD1683-0BC0

Product type

SIMADYN D SP8 Power Supply Unit

System family

SIMADYN D

Functional role

Power Supply Unit

PARAMETER	DOCUMENTED VALUE
Exact model	6DD1683-0BC0
Module designation	SP8
Hardware type	Power supply unit
Host platform	SIMADYN D
Input	24 V DC
Main output	5 V DC / 52 A
Auxiliary outputs	+15 V DC and -15 V DC
Cooling	Integrated fan

Release basis: verify the exact identity, retained host relationship, connected interfaces and controlled functional result.

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System overview

The SP8 converts the cabinet's 24 V DC feed into the logic and auxiliary rails required by its assigned SIMADYN D rack, so rack load, fan operation and rail stability are verified together.

- Legacy rack restoration**

Returns the documented SP8 position to service without changing the rack's power architecture.
- Rail-load verification**

Confirms the 5 V and auxiliary rails remain stable with the installed modules energized.
- Fan-service assessment**

Checks forced-air operation before thermal acceptance of the repaired rack.
- Controlled spare matching**

Uses the complete order number to separate SP8 from visually similar supply executions.

SYSTEM POSITION	RECORD
Installed identity	6DD1683-0BC0
Host relationship	SIMADYN D
Controlled function	regulated rack power for the assigned SIMADYN D hardware

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Technical data map

PARAMETER	VERIFIED VALUE
Exact model	6DD1683-0BC0
Module designation	SP8
Hardware type	Power supply unit
Host platform	SIMADYN D
Input	24 V DC
Main output	5 V DC / 52 A
Auxiliary outputs	+15 V DC and -15 V DC
Cooling	Integrated fan
Lifecycle note	Product no longer available from the original catalog
Acceptance	Fan operation and all output rails under rack load

CONTROL BAND	VERIFICATION RECORD
Identity	Exact model and complete label
Mechanical	Form, seating and retention
Interfaces	Power, wiring, communication and protection
Configuration	Settings, project and revision
Release	regulated rack power for the assigned SIMADYN D hardware

Technical evidence record: Official exact-model SP8 data sheet and independent identity corroboration

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Applications and precautions

1

Read the full 6DD1683-0BC0 nameplate and confirm the SP8 designation.

2

Verify the cabinet presents the documented 24 V DC feed with correct polarity.

3

Record rack population and estimated 5 V load before disturbing the supply.

4

Isolate the rack and prove the input and stored-energy points safe.

5

Inspect the fan path, connector condition and backplane mating surfaces.

6

Measure the 5 V, +15 V and -15 V rails after controlled energization.

7

Confirm fan operation and monitor the supply for abnormal heating or alarms.

8

Release the rack only after processor and I/O startup diagnostics are normal.

Complete each check against the installed record; hold release when any identity, connection, configuration or diagnostic result differs.

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Buyer and engineering FAQ

What is the purpose of 6DD1683-0BC0?

It is the SP8 supply that generates the documented logic and auxiliary rails for a SIMADYN D rack.

Which incoming supply does the SP8 require?

The exact-model data sheet specifies a 24 V DC input.

What is the principal SP8 output?

Its main documented output is 5 V DC at 52 A.

Does 6DD1683-0BC0 provide auxiliary rails?

Yes. The exact-model record also identifies positive and negative 15 V DC outputs.

Related Apter Power pages

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