

Siemens

6DD1683-0BC0

SIMADYN D SP8 Power Supply Unit

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.

System position

Exact identity 6DD1683-0BC0	System family SIMADYN D	Functional role Power Supply Unit	Release basis Recorded test and diagnostics
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Keep the hardware and configuration identities together

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.

IDENTITY / RESOURCE	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

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

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Interfaces and integration

Define the installed role

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

Exact model	6DD1683-0BC0
Module designation	SP8
Hardware type	Power supply unit

Map the host relationship

The complete 6DD1683-0BC0 identity is matched to the host position, companion hardware and retained engineering record before any connection is disturbed.

Host	SIMADYN D
Primary role	regulated rack power for the assigned SIMADYN D
Acceptance	Diagnostics and functional response

Interface control matrix

CONTROL BAND	VERIFICATION RECORD
Identity	Exact model and complete label
Mechanical	Form, seating and retention
Electrical	Power, field wiring and protective earth
Communication	Address, network and companion configuration
Configuration	Switches, parameters, project and revision
Release	Controlled test with retained result

Configuration continuity

Retain the recorded SIMADYN D position, connected interfaces and configuration baseline.

Acceptance evidence

Release 6DD1683-0BC0 only after diagnostics and a controlled functional result are recorded.

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Technical resource bands

Only values tied to the complete product identity are listed. Installation-specific settings remain governed by the controlled site record.

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

Identity decision

Accept only the complete 6DD1683-0BC0 marking and the recorded hardware execution.

Host decision

Confirm the receiving SIMADYN D position and every companion component.

Interface decision

Compare mechanical fit, power, field wiring, communication and protective earth.

Release decision

Record diagnostics and a controlled test of regulated rack power for the assigned SIMADYN D hardware before handover.

Engineering boundary

Use 6DD1683-0BC0 only after the exact host, installed position, companion parts, protection measures and commissioning record have been matched. Do not borrow ratings from a similar-looking variant.

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Controls and service logic

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.

Service decision path

STEP	REQUIRED OUTCOME
1. Identify	Read 6DD1683-0BC0 and all companion markings
2. Compare	Host, position, connections, settings and revision
3. Install	Restore wiring, shielding, retention and protection
4. Verify	Review diagnostics and execute controlled function test

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Engineering decisions

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.

Why is the cooling fan part of acceptance?

The unit is fan-cooled, so correct airflow is needed before the rack is returned to continuous service.

Can an SP8 be selected by faceplate appearance?

No. Match the full 6DD1683-0BC0 order number, connector arrangement and rack load.

Related Apter Power pages

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