

APTER POWER PRODUCT MANUAL

6DD1683-0CH0

SIMATIC TDC PS5213 Power Supply

The Siemens 6DD1683-0CH0 is the PS5213 power supply identified for the SIMATIC TDC UR5213 rack. It converts the rack AC input into the regulated backplane rails required by the installed TDC modules.

It feeds +5 V, +3.3 V, +12 V, and -12 V rack circuits and supports the documented power-failure ride-through behavior of the complete UR5213 system.

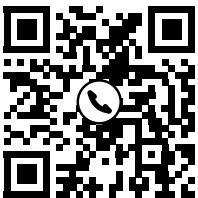
Manufacturer	Siemens
Prepared by	Apter Power
Document ID	AP-SIE-05-6DD1683-0CH0-PM-R1
Revision	R1
Issue date	2026-08-14

APTER POWER SALES TEAM

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Feed Every TDC Rail from the Correct PS5213.

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SCAN FOR PRODUCT & QUOTE

6DD1683-0CH0

1. Product Overview and Identity

The Siemens 6DD1683-0CH0 is the PS5213 power supply identified for the SIMATIC TDC UR5213 rack. It converts the rack AC input into the regulated backplane rails required by the installed TDC modules.

It feeds +5 V, +3.3 V, +12 V, and -12 V rack circuits and supports the documented power-failure ride-through behavior of the complete UR5213 system.

Model Configuration

Field	Verified information
Complete model	6DD1683-0CH0
Manufacturer	Siemens
Product description	SIMATIC TDC PS5213 Power Supply

Key Features

- Exact 6DD1683-0CH0 identity retained
- Manufacturer-source data separated from unconfirmed values
- PS5213
- System context: SIMATIC TDC
- Model-specific lifecycle and installation guidance

2. Technical Specifications

Only manufacturer-confirmed information is stated. Values absent from the named Siemens source are marked for nameplate or document verification.

Parameter	Verified value
Power supply	PS5213
Exact article	6DD1683-0CH0
Matched rack	UR5213, 6DD1682-0CH0
Rack AC input	90 to 264 V AC, 47 to 63 Hz
Backplane rails	+5 V, +3.3 V, +12 V, -12 V
Rack power-failure backup	Minimum 15 ms under the documented condition
Compliance context	Industrial environment and low-voltage directive listing

Verification Note

Use the complete 6DD1683-0CH0 identity. Siemens identifies PS5213 article 6DD1683-0CH0 in the current TDC documentation. Confirm the present service channel before replacement. Values not published in the cited Siemens source are intentionally not inferred.

3. Functions, Applications and Components

Core Functions

- It feeds +5 V, +3.3 V, +12 V, and -12 V rack circuits and supports the documented power-failure ride-through behavior of the complete UR5213 system.
- Maintains the documented SIMATIC TDC system role for this exact identity.
- Provides an exact reference for engineering, maintenance, and quotation review.

Application Areas

Application	System role
TDC rack power conversion	Supply all documented UR5213 backplane rails.
High-performance control cabinets	Maintain processor and signal-module power integrity.
Rack service qualification	Check PS5213 identity separately from the UR5213 frame.

Compatible Components

- UR5213 rack article 6DD1682-0CH0
- TDC module population within the published rail capacities
- AC feeder, protection, PE, and cabinet cooling designed for the complete rack

Lifecycle Status

Siemens identifies PS5213 article 6DD1683-0CH0 in the current TDC documentation. Confirm the present service channel before replacement.

4. Installation Precautions

- Verify absence of voltage before power-supply work
- Check the UR5213 module-load calculation
- Connect PE and feeder protection exactly as documented
- Inspect rack connectors before insertion
- Do not substitute another TDC supply from the family prefix alone

STOP - Verify before installation

Use the complete 6DD1683-0CH0 identity. Siemens identifies PS5213 article 6DD1683-0CH0 in the current TDC documentation. Confirm the present service channel before replacement. Values not published in the cited Siemens source are intentionally not inferred.

Use the physical nameplate and current Siemens documents as the controlling records.

5. Official Source and Use Notice

Official source

Siemens SIMATIC TDC Hardware System Manual, PS5213 and UR5213 component listings and rack technical data.

Apter Power product page

<https://www.apterpower.com/Siemens/6DD1683-0CH0>

Use Notice

This is an original Apter Power product-specific reference prepared from the Siemens source named above. It is not a Siemens publication and does not replace the original data sheet, nameplate, certificate, installation drawing, safety instructions, or machine-builder documentation.

ASK FOR QUOTE

For availability and quotation details, visit www.apterpower.com or contact sales13@apterpower.com.