TECHNICAL REFERENCE / EXACT-MODEL DOSSIER

GE DS3820PSCC1D1B

Power Supply Card

GE DS3820PSCC1D1B is a housed Mark IV power-supply assembly with two terminal strips, transformers, capacitors, heat sinks and service indicators.

IDENTITY AND FUNCTION SNAPSHOT

H1 Mark IV power-supply assembly	**H2** Two screw-type terminal strips
H3 Ventilated metal housing with heat sinks	**H4** Transformers, capacitors, LEDs and adjustment components

Installed-system position

1	Mark IV cabinet source
2	DS3820PSCC1D1B conversion assembly
3	Filtered and thermally managed supply stages
4	Connected Mark IV control circuits

Exact-model release boundary

Identity Keep GE DS3820PSCC1D1B complete in drawings, labels and acceptance records.	**Evidence** Use only the exact-model and explicitly applicable family facts documented here.
Configuration Record cables, jumpers, settings and the installed functional position before work.	**Acceptance** Prove the affected control path before returning the equipment to service.

02 / SYSTEM ROLE AND INTERFACES

Architecture, interfaces and service boundaries

GE DS3820PSCC1D1B uses terminal strips and keyed internal connections to distribute its power-supply circuits. Its large clamped capacitor, transformers and heat sinks require discharge, polarity and thermal inspection during service.

CONTROL PATH

1	Mark IV cabinet source

2	DS3820PSCC1D1B conversion assembly
3	Filtered and thermally managed supply stages
4	Connected Mark IV control circuits

Interface architecture

Terminal strips	Two screw-type connection bars for the installed cabinet circuits
Internal connectors	Male and female interfaces between assembly sections
Conversion components	Transformers, amplifiers, transistors and rectifying/filter stages
Thermal and status points	Heat sinks, thermistors, ventilation openings, LEDs and potentiometers

Interface acceptance checks

1

Lock out the cabinet source and verify capacitor discharge before touching DS3820PSCC1D1B.

2

Record every conductor on both terminal strips and every internal connector before disassembly.

3

Preserve polarity and connector orientation; do not rely on wire color alone.

4

Inspect the large clamped capacitor for leakage, swelling and secure mechanical retention.

Engineering rule

A nearby GE family code does not establish interchangeability with DS3820PSCC1D1B; use the physical nameplate and controlled site records.

03 / VERIFIED TECHNICAL DATA

Engineering matrix and component map

Every populated row is a technical value supported by the reviewed exact-model record or an explicitly applicable GE family source.

Product family	Mark IV
Unit function	Power-supply assembly
Construction	Housed PCB and free-standing components
Terminal strips	2 screw-type strips
Energy-storage components	Large clamped capacitor and additional capacitors
Magnetic components	Transformers
Thermal components	Heat sinks and ventilated housing
Adjustment and indication	Potentiometers and LEDs
Connector types	Male and female connectors

CHANGE CONTROL

Record Capture the full model, revision, slot, connectors and as-found condition.	**Compare** Match every populated technical row to the replacement and project record.
Protect Apply controlled isolation, stored-energy and ESD practices.	**Prove** Complete the product-specific functional and safe-state checks.

Source applicability

Evidence record	Applicable scope
Exact-model DS3820PSCC1D1B technical and construction records	Supports only the exact-model or explicitly applicable family facts used in this document.
GE Mark IV control-system family documentation	Supports only the exact-model or explicitly applicable family facts used in this document.

04 / SERVICE LOGIC AND ACCEPTANCE

Fault isolation and controlled return

1	Capture the fault, indicators and surrounding-system state

2	Verify exact identity, power boundary, cabling and installed position
3	Test GE DS3820PSCC1D1B against the approved service procedure
4	Correct the isolated cause and restore the recorded configuration
5	Commission the affected path and archive measured evidence

Eight product-specific precautions

1 Lock out the cabinet source and verify capacitor discharge before touching DS3820PSCC1D1B.	**2** Record every conductor on both terminal strips and every internal connector before disassembly.
3 Preserve polarity and connector orientation; do not rely on wire color alone.	**4** Inspect the large clamped capacitor for leakage, swelling and secure mechanical retention.
5 Check heat sinks, ventilation openings and wire bundles for blocked airflow or heat damage.	**6** Do not adjust potentiometers without the controlled calibration procedure and recorded as-found positions.
7 After repair, energize in a controlled sequence while monitoring indicators and downstream supply behavior.	**8** Complete acceptance with cabinet-level protection, thermal and functional checks under the documented Mark IV operating condition.

05 / ENGINEERING FAQ AND SUPPORT

Model-specific engineering decisions

Engineering decision	Controlled response
Which control family uses GE DS3820PSCC1D1B?	DS3820PSCC1D1B is identified as a Mark IV power-supply assembly.
How many terminal strips are present on GE DS3820PSCC1D1B?	The housed assembly contains two screw-type terminal strips.
Which energy-storage component requires special attention on GE DS3820PSCC1D1B?	A large capacitor retained by a collar clamp must be discharged and inspected before service.
How is heat managed in GE DS3820PSCC1D1B?	The metal housing provides ventilation openings and the assembly uses heat sinks around power components.
Which service components are visible on GE DS3820PSCC1D1B?	The record identifies LEDs, potentiometers, thermistors, transformers and male/female connectors.
What should be recorded before removing GE DS3820PSCC1D1B?	Capture both terminal-strip maps, connector orientation, wire-bundle routing, potentiometer positions and indicator condition.

Engineering decision	Controlled response
Which checks close GE DS3820PSCC1D1B commissioning?	Verify capacitor discharge controls, terminal polarity, connector seating, ventilation, indicators and stable downstream supply behavior during staged energization.

Related Apter Power references

Related Apter Power references	Scope note
GE IC697CPM790	Portfolio reference only; verify compatibility independently.
GE IC697ALG321	Portfolio reference only; verify compatibility independently.
GE IC697CPU772	Portfolio reference only; verify compatibility independently.

	Apter Power technical support sales13@apterpower.com +86 180 3023 5313 www.apterpower.com	Model record GE DS3820PSCC1D1B Power Supply Card Verify the complete nameplate before installation.