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.

01	02	03	04
Mark IV power-supply assembly	Two screw-type terminal strips	Ventilated metal housing with heat sinks	Transformers, capacitors, LEDs and adjustment components

System position

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

Product and release scope

Exact identity	Engineering use	Verification boundary	Acceptance
GE DS3820PSCC1D1B is retained without shortening its suffix.	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.	Only exact-model or explicitly applicable family facts are populated.	Connections, configuration, function and safe response require recorded proof.

02 / CAPABILITY AND INTERFACE MAP

Verified technical matrix

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

Interface architecture

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

Control path

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

Technical service focus

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

Use cases with controlled scope

Mark IV supply replacement	Power-path troubleshooting	Preventive inspection	Controlled recommissioning
Restores the exact DS3820PSCC1D1B power-supply position without changing cabinet architecture.	Provides test boundaries at the terminal strips, connector interfaces and indicator points.	Supports checks of capacitor condition, heat-sink airflow, thermistors and connector integrity.	Allows staged input and downstream-circuit verification after an exact-identity replacement.

INTEGRATION CHECKPOINTS

Identity	Host system	Configuration	Acceptance
GE DS3820PSCC1D1B remains complete in purchasing, drawings and labels.	Installed position and surrounding hardware are verified before exchange.	Project data, jumpers, wiring and settings are recorded as applicable.	Functional and safe-state evidence is captured before release.

Installation decision points

1	2	3	4
Lock out the cabinet source and verify capacitor discharge before touching DS3820PSCC1D1B.	Record every conductor on both terminal strips and every internal connector before disassembly.	Preserve polarity and connector orientation; do not rely on wire color alone.	Inspect the large clamped capacitor for leakage, swelling and secure mechanical retention.

System relationship

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

FAQ decision matrix

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.

Eight release 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.

Product verification and contact

Evidence 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.

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.