FIELD GUIDE / EXACT-MODEL WORK BOUNDARY

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.

Job objective

Replace, install or verify the exact unit while preserving unrelated wiring, configuration, dimensions, weight and stored product data.

Safe-work boundary

Identify Match the complete model and every suffix to the physical unit.	**Isolate** Apply the plant-approved electrical, process and stored-energy isolation.
Preserve Back up configuration and photograph all connections and settings.	**Control** Use ESD protection and revision-controlled documentation.

Product-specific hazards and controls

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.

Required evidence before work

Nameplate photo, installed-position record, connection map, configuration or jumper record, fault history and approved acceptance plan.

02 / PRE-INSTALLATION READINESS

Readiness and interface checklist

Exact identity	GE DS3820PSCC1D1B matches the work order and physical unit
Installed position	Rack, slot, panel and functional assignment recorded
Configuration	Project data, jumpers, settings or calibration state captured
Connections	Every cable, terminal, shield and polarity labeled
Condition	Board, housing, connectors and packaging inspected
Test plan	Expected states, safe response and acceptance evidence agreed

Interface preparation

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

Pre-job evidence review

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

03 / INSTALLATION SEQUENCE

Controlled replacement workflow

1	Confirm isolation and absence of hazardous energy
2	Compare removed and replacement identities and revisions
3	Photograph, label and verify all connections and settings
4	Remove the existing assembly using ESD-safe handling
5	Inspect mounting, connectors, grounding, ventilation and surrounding hardware
6	Install the exact replacement without forcing connections
7	Restore cables, jumpers and settings from the controlled record
8	Complete final visual, continuity and polarity checks before energization

STOP CONDITIONS

Identity

Stop if the complete model or revision does not match.

Connection

Stop if connector orientation, polarity or terminal mapping is unresolved.

Configuration

Stop if the as-found jumper, project or adjustment record is missing.

System

Stop if grounding, cooling or the safe-state assignment is uncertain.

Staged return to service

Stage 1	Visual inspection, isolation release and controlled power-ready state
Stage 2	Apply power under observation and stop on abnormal indicators, heat or sound
Stage 3	Confirm module recognition, status indications and surrounding-system health
Stage 4	Verify every affected connection, signal or relay path
Stage 5	Exercise the documented function and configured safe response
Stage 6	Archive measurements, settings, results and as-left configuration

Product-specific acceptance focus

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.

Acceptance evidence

Identity

Photo and record show the exact installed model.

Connections

Terminal, cable and connector checks are complete.

Function

The affected command, indication or supply path has been exercised.

Safe state

Loss-of-power or loss-of-command behavior matches the approved design.

Fault isolation and final record

1	Unexpected state: stop and capture evidence
2	Recheck identity, power boundary, position and connections
3	Compare configuration and revision-controlled records
4	Test the surrounding system before condemning the unit
5	Restore a safe state and document the verified outcome

Apter Power handover record

Model identity	Keep the complete GE model code and every suffix in purchasing, installation and acceptance records.
Verification boundary	Confirm the physical nameplate, installed position and revision-controlled project documents before field work.
Apter Power support	Use the contact details and Apter Power website links in this document for product and sourcing support.

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.