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GE IS200ERSDG1A

Complete Product Information / Static Converter Board

GE IS200ERSDG1A is an ERSD exciter regulator static converter board. ERSD is documented as part of the EX2100e excitation-control regulator system.

CAPABILITY ATLAS

01 / Functional feature

ERSD identifies the Version D exciter regulator static converter.

02 / Functional feature

Documented within the EX2100e regulator system.

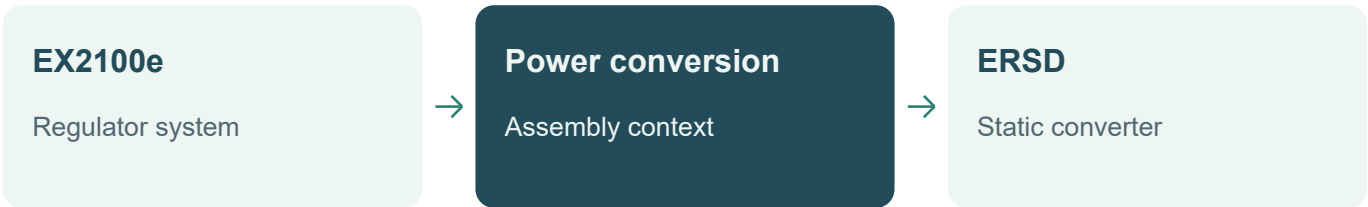
03 / Functional feature

Located within the regulator power-conversion assembly.

04 / Functional feature

Serviced with the installed converter assembly and unit-specific diagrams.

SYSTEM RELATIONSHIP



Assembly hierarchy only. This diagram does not prescribe wiring or establish a board electrical rating.

Evidence boundary

ERSD functional-board and assembly context are documented. The G1A suffix is retained; complete-model electrical and mechanical ratings remain unverified.

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Interfaces & system context

Complete Product Information / Technical dossier

VERIFIED TECHNICAL FIELDS

Field	Documented value
Functional acronym	ERSD
Documented meaning	Exciter Regulator Static Converter (Version D)
System context	EX2100e regulator system
Assembly context	Regulator power-conversion assembly

Technical note

Service the ERSD converter within the installed regulator power-conversion assembly. Isolate all applicable energy sources and use the unit-specific circuit diagrams before disconnecting the assembly.

SERVICE EVIDENCE MAP

Service boundary	Required evidence
Full identity	Board marking and installed assembly
Energy sources	Unit-specific AC/DC isolation points
Stored energy	Discharge verified by measurement
Release condition	Inspection, alarm and fault checks completed

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Integration & applications

Complete Product Information / Engineering use

System element	Documented relationship
EX2100e	Regulator excitation-control system
Power-conversion assembly	Contains ERSC or ERSD functional board
K3 relay	Associated inspection item in regulator maintenance
Unit drawings	Establish installed wiring and assembly variant

APPLICATION ATLAS

Generator excitation service

Used in the documented EX2100e regulator static-converter context.

Converter assembly restoration

Supports maintenance of the regulator power-conversion assembly containing ERSD.

Planned regulator maintenance

Provides a model identification point when inspecting the installed converter assembly and associated K3 relay.

Post-service system checks

Forms part of the converter system returned to service after isolation, inspection and alarm checks.

Use the installed unit drawings to establish the specific wiring and configuration. Application context does not establish replacement compatibility.

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Service precautions

Complete Product Information / Before returning to service

01 / Check

Identify the full IS200ERSDG1A model and installed assembly before service.

02 / Check

Isolate all applicable AC and DC sources under the plant lockout procedure.

03 / Check

Verify incoming terminals are de-energized with the appropriate measuring instrument.

04 / Check

Confirm the generator is stopped and its rotor is not moving before converter-assembly replacement.

05 / Check

Isolate the applicable power potential transformer fuses or breaker as required by the unit procedure.

06 / Check

Verify stored capacitor energy has discharged by measurement; elapsed time alone is insufficient.

07 / Check

Label wires and connectors before disturbing the power-conversion assembly.

08 / Check

Inspect the installed K3 relay and check system alarms after maintenance using the EX2100e procedure.

Handover record

Retain the complete model, connection labels, configuration or isolation measurements, work performed and results of the site-approved functional checks.

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Questions & evidence

Complete Product Information / Model-specific decisions

What does ERSD mean for GE IS200ERSDG1A?

ERSD denotes Exciter Regulator Static Converter (Version D). The functional acronym does not decode the G1A ordering suffix.

Where does GE IS200ERSDG1A fit in the EX2100e system?

The maintenance guide places ERSD in the regulator power-conversion assembly. Confirm the installed assembly against the unit drawings.

Is the regulator system rating a board rating for GE IS200ERSDG1A?

No. The system rating stated in the maintenance guide is not an independently verified rating for this complete board model.

What isolation checks apply before servicing GE IS200ERSDG1A?

The converter-assembly procedure requires all applicable AC and DC sources to be isolated, incoming terminals checked and stored energy verified discharged.

Can a discharge waiting time alone make GE IS200ERSDG1A safe to handle?

No. Verify capacitor discharge with the appropriate measuring instrument before converter-assembly work.

Which relay is included in maintenance around GE IS200ERSDG1A?

The regulator maintenance checklist includes inspection of K3 on ERSC or ERSD in the documented regulator system.

What should be checked after work involving GE IS200ERSDG1A?

Check the system alarm and fault indications after the prescribed inspections and controlled return to service.

Manufacturer source record

GEH-6784D, EX2100e Excitation Control Maintenance Guide: glossary p.16; maintenance p.21; power-conversion assembly and replacement pp.34-38.

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