GE IS200EDCFG1AED

Exciter DC Feedback Board

GE IS200EDCFG1AED measures generator field current and bridge DC voltage for EX2100, sending the two feedback quantities to EISB through an isolating fiber-optic path.

Sourcing Support | 12-Month Warranty

Product summary

Manufacturer part number	IS200EDCFG1AED
Shipping	Swift global dispatch
Condition	New, original product
Shipping size (est.)	22.8cm x 15.1cm x 3.5cm
Country of Origin	USA
Manufacturer	General Electric
Product Category	Gas Turbine Control
Spare Part Number	IS200EDCFG1AED
Weight	0.24 kg

Buyer information / Overview

EDCF is the DC bridge-feedback board. EACF measures the exciter AC supply instead; its voltage groups and copper I/O arrangement must not be transferred to this EDCF reference.

Noise-resistant feedback
Optical transmission separates high-energy bridge measurement from the controller interface.

Independent measured quantities
Shunt-derived current and scaled bridge voltage follow distinct signal paths.

Application-selected scaling
The installed bridge setting governs the interpretation of voltage feedback.

Current feedback starts at the DC shunt at the power-converter output. Its low-level differential signal is amplified and converted into a proportional frequency before optical transmission. The nominal shunt signal describes the documented measurement arrangement; it is not permission to connect an arbitrary higher shunt output.

Voltage feedback is taken across the bridge output and scaled by the application-selected resistor/jumper arrangement. The seven settings belong to bridge-voltage scaling, whereas the controller must interpret the resulting feedback against the installed excitation configuration. A plausible signal can still represent an incorrect scale.

The EDCF and EISB communicate across a fiber-optic isolation boundary. Keep the high-energy voltage and shunt connections distinct from the control-side optical receivers and the external bipolar supply. After restoring the channel, compare current and voltage with approved independent references and the recorded operating condition.

Controller platform reference: EX2100 DC field feedback. Retain the documented GE configuration.

Technical Specifications

Nominal shunt signal	100 mV
Current-channel amplifier range	-5 to +5 V
Feedback frequency range	0 to 2 MHz
Feedback accuracy	1% of full scale
Bridge-voltage selector settings	7
External supply rails	+24 V DC / -24 V DC
Internal regulated rails	+15 V DC / -15 V DC / +5 V DC

Technical source: GE EX2100 Excitation Control User Guide GEH-6632G. Values describe the EDCF measurement path in the documented EX2100 design. The 100 mV figure is the nominal shunt signal, not a maximum input rating. Preserve the full G1AED hardware identity and installed voltage-scaling selection.
Apter Power product summary. Original technical pages and a field guide are available in Downloads.

Applications / Compatibility

EDCF belongs at the SCR-bridge DC measurement boundary of EX2100, with the optical feedback received by EISB.

Apply its shunt and bridge-voltage functions separately. AC supply feedback, ground detection and gate firing are handled by other documented modules.

Field-current feedback
Retain the installed DC shunt relationship and differential wiring. Check polarity and the receiving scale rather than selecting a shunt from its physical fit.

Bridge-voltage feedback
Restore the voltage-scaling choice for the actual bridge application. Confirm the selector record before judging a plausible controller reading as correct.

Optical control interface
Trace current and voltage fibers independently to the EISB receivers. Preserve their channel identities and the isolation between bridge and controller.

Excitation channel restoration
Compare the two feedback quantities against the accepted excitation operating record. Diagnose a scale discrepancy separately from a missing optical signal.

Product Precautions

Prepare GE IS200EDCFG1AED using the following checks for its documented interface and system duty.

Control the bridge boundary
Use the approved field-circuit isolation procedure before touching shunt or voltage connections.

Record selector positions
Capture the actual voltage-scaling selection before the board is removed.

Retain shunt polarity
Identify both differential shunt leads and their circuit destination.

Separate the fibers
Tag voltage and current optical paths at both ends.

Check bipolar supply
Confirm both external supply rails with respect to the documented reference.

Verify against a reference
Compare restored feedback with approved independent measurements before control release.

Lifecycle Status

IS200EDCFG1AED is an EX2100 DC field-feedback board. Its factory lifecycle phase is unconfirmed; the retained shunt and bridge-voltage measurement arrangement govern continued service.

Match the bridge-voltage selector and both optical destinations. EACF measures an AC source and cannot be selected as an equivalent merely because both boards provide feedback.

The feedback board is separate from the field shunt, bridge hardware, EISB receiver and fiber-optic cables.

Available Unit Details

Offered reference	GE IS200EDCFG1AED
Identity check	Request G1AED marking, voltage-selector position and clear views of the shunt, bridge-voltage, supply and optical connection areas.
Physical review	The board offer excludes the shunt and EISB unless listed. Actual scaling, current polarity and the two received measurements require isolated, approved circuit tests rather than a visual board inspection.
Included items	one DC feedback board; shunt, fibers and controller interface separately listed

Request available-unit photos and details: sales13@apterpower.com

Technical notes

Nominal versus maximum	The documented 100 mV shunt signal is a nominal operating value.
Measurement separation	Current derives from the DC shunt; voltage uses the bridge-scaling network.
Two-channel fault isolation	Use current sign and magnitude to assess the shunt path, and an independent voltage reference to assess bridge scaling. A common adjustment cannot diagnose both paths.

Alternative Names

GE IS200EDCFG1AED

Frequently Asked Questions (FAQ)

1. Can IS200EDCFG1AED replace an EACF AC-feedback board?

No. EDCF measures DC field current and bridge voltage, while EACF measures the exciter AC supply. Compare the measured quantity and interface before considering any spare.

2. Does the nominal shunt signal of IS200EDCFG1AED define its maximum allowed input?

No maximum input rating is established by that nominal figure. Preserve the installed shunt and approved scaling relationship rather than increasing the shunt signal from this value alone.

3. Why can IS200EDCFG1AED return a stable voltage reading with the wrong engineering value?

The bridge-voltage selector and receiving configuration determine scaling. Compare the saved selector setting and controller interpretation with an approved independent voltage reference.

4. How should crossed optical channels on IS200EDCFG1AED be ruled out?

Trace the voltage and current fibers from their board outputs to the assigned EISB receivers. Confirm each channel using the relevant quantity and test condition rather than relying on cable appearance.

5. What should be checked when both feedback quantities disappear from IS200EDCFG1AED?

Review the bipolar supply, common board connections and optical routing first. Distinguish a shared supply/interface problem from separate shunt and bridge-voltage faults.

6. Can optical communication from IS200EDCFG1AED make its bridge connections safe to touch?

No. The optical link isolates the controller path; it does not remove hazardous energy at the bridge, shunt or voltage connections. Use the approved field-circuit isolation procedure.

7. Why does a live optical signal not by itself validate the measurement from IS200EDCFG1AED?

The pulse stream must reach the correct receiver and be interpreted with the installed engineering scale. Compare current and bridge voltage separately with approved references; optical activity alone does not establish quantity, polarity or calibration.

8. What should be checked before correcting a persistent offset on IS200EDCFG1AED in software?

Compare the approved shunt relationship, voltage-selector position, bipolar supply and fiber destinations with the retained configuration. Establish which quantity is wrong before changing application scaling; otherwise a wiring or selection error may be hidden.

Downloads

The technical reference covers EX2100 DC field feedback. The independent field guide develops dc shunt, bridge scaling and optical channel proof.

IS200EDCFG1AED Original Technical Reference Excerpt	Selected original manufacturer pages for the applicable interfaces and technical data. PDF · 3 pages · 54.6 KB.
IS200EDCFG1AED Installation & Commissioning Guide	DC Shunt, Bridge Scaling and Optical Channel Proof. Treat the bridge voltage ratio and DC shunt relationship as two independent acceptance decisions before reconnecting the receiving controller. PDF · 2 pages · 92 KB.

Selected original technical pages and a separate installation guide support this product.

What happens after you enquire

Review your reference	Send the full marking, quantity and label photos. We review the item and any version details that need clarification.
Confirm the offer	Check the quoted reference, condition, included items and expected dispatch date before approving your order.
Arrange dispatch	Confirm delivery details and receive the tracking number when it becomes available.

Ordering checks

Include IS200EDCFG1AED and every revision or approval marking visible on the item. Keep the exact reference on your enquiry and quotation.

Request available label and interface photos. Have your maintenance team compare the offered IS200EDCFG1AED reference with the installed equipment and applicable GE documentation.

Service and support

Dispatch Planning	Confirm stock and lead time with our team.
Dedicated Manager	Personalized one-to-one VIP service
ISO 9001:2015 Certified	Trusted quality management
Warranty Policy	Review the applicable warranty coverage and claim process.
Return Notice	Check the return process and obtain approval before sending an item back.
Shipping Method	Review shipping arrangements, transit estimates and delivery responsibilities.
Parts Availability	Browse stock listings and confirm current availability with our team.
How to order	See how to submit an enquiry, review a quotation and confirm an order.

Discuss your requirement

Send the full marking, label photos, quantity and required date. Our team will review the available sourcing options with you.

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Related product references

Separate supply references; listing does not establish interchangeability.

GE IS200TRLYH1BHH	Relay Output Terminal Board; separate supply reference
GE IS200TSVCH2AJE	Servo Control Terminal Board; separate supply reference

Discuss IS200EDCFG1AED and the installed application with Apter Power.
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