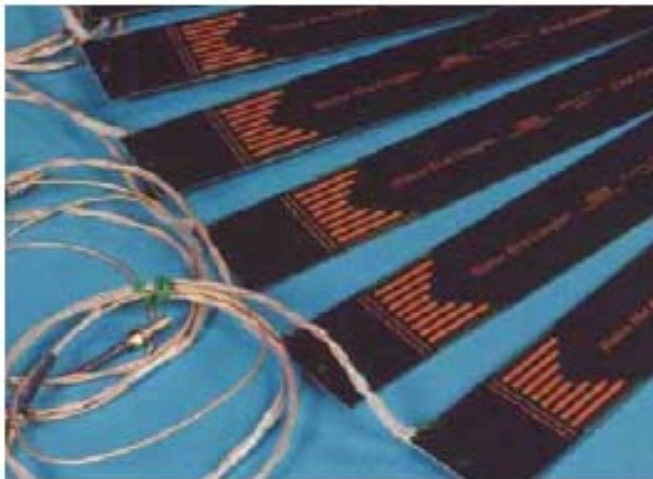


# COUPLERS

## Stator Slot Couplers

Iris Power stator slot couplers (SSCs) are specifically designed to detect stator winding partial discharge activity in operating gas or steam turbine generators.

Used in conjunction with the Iris Power TGA-S test instrument, the SSCs (shown below) are permanently installed under the line end stator winding wedges (in existing machines), or between the top and bottom bars (in new or rewind machines). The SSCs are not connected to the high voltage winding, and they are not subject to any high electrical stresses. Turbine generators rated up to 600 MVA normally require 6 SSCs, while higher rated turbine generators may require more.



### Specifications

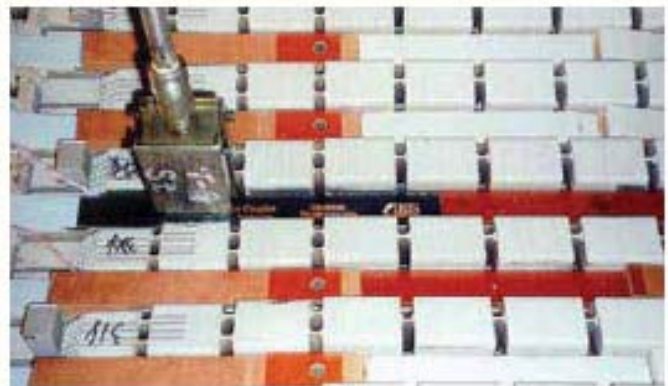
- made from epoxy glass laminate, NEMA G10 (Class F)
- 100-1000 MHz bandwidth (3 dB cut-off)
- 50  $\Omega$  impedance
- dual output to distinguish slot discharge from end-winding partial discharges
- 2.0 mm thick, width cut to fit stator slot, length trimmable to 53 cm

### Additional Information

- NEMA G11 (Class H) available on request
- Hydrogen penetration kits for 6 SSCs:
  - comprehensive penetration kit requires only 1 hole in generator casing, includes integral termination box assembly (default) or termination box and extension cables and nitrogen gas pressure tested to 2758 kPa or 400 psi.

50/60 Hz signal required (use one of the following):

- Isolation Transformer
- EMC
- PFCT



### Patents:

Korea	No. 70374	Australia	No. 609019
Argentina	No. 247298	Canada	No. 1287372
Brazil	No. P18906170-5	Europe	No. 89-309911.9
Mexico	No. 174353	USA	No. 4949001
Japan	No. 2140724		

Iris Power installation supervision is recommended.

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