

# The CAP-F

## Custom Isophase Bus Bar System IR Window

The low profile FlexIR CAP-F Series, for isophase bus systems, is a large format combination infrared, visual and ultraviolet inspection window specifically designed for the power generation and large power user market. Both the bolted or welded window design acts as an access port for repairs as it can be easily removed to allow the technician access to repair the fault. Once refitted, the isophase system can be re-energized and the repaired joint can be inspected to confirm that the repair was effective.

### Customizable Design

There is no such thing as a standard IR inspection so why should there only be a standard IR Window? IRISS is the only IR window manufacturer with solutions for unique applications. The patented IRISS reinforced optic is flexible and can be manufactured to fit any diameter of isophase ensuring that the FlexIR Custom IR window meets your application.

### Unparalleled Field of View

Unlike the round infrared windows, the large format IRISS CAP series and custom infrared windows have a far superior field of view. The CAP-F Series has a large FOV which gives the thermographer the ability of infinite viewing angles inside the switchgear. A standard round window just is not practical for isophase bus system applications.

### Features



Customizable



Fixed & Stable Transmission



Poly-View™ Optic



Durable and Rugged



Anti-Fogging Optic



E Sentry Connect Asset Management



Environmental Design



Unconditional Lifetime Warranty



Proudly Made in the United States

## Specifications

Model	CAP-F
<b>General Specifications</b>	
NEMA Rating	IP67 / NEMA 6
Voltage Range	Any
Operating Temperature	-40°C (-40°F) to 273°C (523°F)
Body and Cover Material	Powder Coated Stainless Steel
Hardware	316 Stainless Steel
Gaskets	UL 94 5VA TPE; -40°C (-40°F) to 273°C (523°F)
<b>Dimension and Optic Specifications</b>	
Optic Material	UL 746 compliant, visual, UV and IR transmissive polymer; -40°C (-40°F) to 325°C (617°F)
Optic Reinforcing Grill Material	Stainless Steel Reinforcing Grill (IP22/ IP2x Standard)
Viewing Aperture Dimensions	L= 39 cm (15.4 in), H= 15 cm (5.9 in)
Overall Dimensions	L= 61 cm (20.3 in), H= 21.8 cm (11.7 in)
Repad Radius	Customizable
<b>Inspection Capabilities and Applications</b>	
Midwave IR	Yes
Longwave IR	Yes
Ultraviolet (UV)	Yes
Visual Inspection	Yes
Medium/High Voltage Applications	Yes
Outdoor Applications	Yes
<b>Other</b>	
Warranty	Unconditional Lifetime Warranty

## Certifications

### UL & cUL Certifications:

- UL 50V & UL 50E
- UL 746C & UL 746A-2012
- UL 1558
- UL 508A/ ANSI 508A

### CSA Certifications:

- CSA C22.2 No. 14-13
- CSA C22.2 No. 14-10
- CSA C22.2 N0. 94-M91
- CSA C22.2 N0. 94.1-07
- CSA C22.2 N0. 94.2-07

### IEEE Certifications:

- IEEE C37.20.7 Type 2B
- IEEE C37 20.2.a.3.6

### IEC Certifications:

- IEC 62271-200
- IEC 60262271-200
- IEC 60298 Appendix A
- IEC 60068-2-6:2007
- IEC 60068-2-3
- IEC 60068-2-78:2012

### Other:

- IP67/NEMA 6
- American Bureau of Shipping (ABS)
- DNV P261.1E Maritime, Vessel and Offshore
- Lloyds of London Type Approval



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