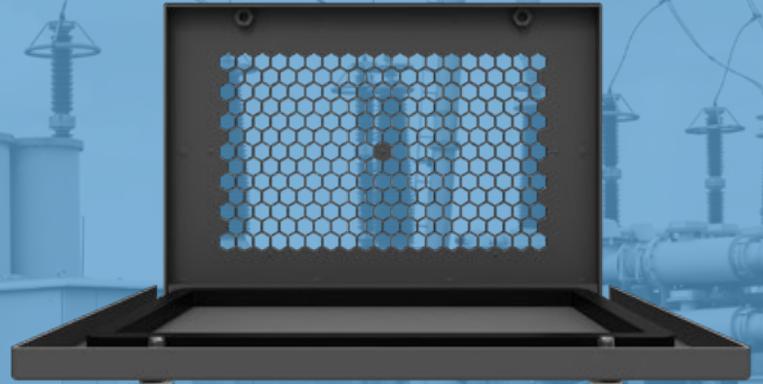# CAP-ENV Series

The Toughest and Most Reliable Infrared Window in The World

Stronger Equipment

Polymer-based IR windows are far more able to resist the mechanical stresses applied to IR window that are fitted to electrical distribution equipment.

Arc Containment Tested

The CAP-ENV Series was successfully tested to the IEC 62271-200 standard for arc containment on metal enclosed switchgear assemblies.

UL Listed

Having passed rigorous standards and testing, our inspection windows are UL Listed (E491496). This demonstrates our dedication to continued safety and security in the ever-changing world of electrical power and distribution.

The CAP-ENV features a reinforced, environmentally-sealed door design, while also providing the largest visually-clear infrared (IR) transmissive viewing area available on the market today. The exclusive reinforced-polymer system allows any thermography camera to monitor completely undisturbed assets inside energized electrical equipment on the visual, UV and shortwave, midwave and longwave IR spectra. The larger rectangular viewing area provides an unparalleled field of view when compared to traditional, round IR windows. Constructed completely from stainless steel, the CAP-ENV series is recommended for outdoor applications.

Specifications

Model	CAP-ENV-4	CAP-ENV-6	CAP-ENV-12	CAP-ENV-18	CAP-ENV-24
General Specifications					
Overall Height	15.24 cm (6 in)	21.8 cm (8.6 in)	20.6 cm (8.1 in)	22.8 cm (9 in)	21.8 cm (8.6 in)
Overall Width	15.24 cm (6 in)	16 cm (6.3 in)	30.5 cm (12.0 in)	46.5 cm (18.3 in)	61 cm (24.0 in)
IP/ NEMA Environment Rating	IP67 / NEMA 6				
Operating Temperature	-40°C (-40°F) to 273°C (523°F)				
Body Material	Powder Coated Stainless Steel				
Gasket Material	UL 94 5VA TPE; -40°C (-40°F) to 273°C (523°F)				
Hardware Material	316 Stainless Steel				
Voltage Range	Any				
Automatically Grounded	Yes				
Optic Specifications					
Viewing Aperture Height	9.77 cm (3.85 in)	15 cm (5.9 in)	12.7 cm (5.0 in)	14 cm (5.5 in)	15 cm (5.9 in)
Viewing Aperture Width	9.68 cm (3.81 in)	9.1 cm (3.6 in)	23.6 cm (9.3 in)	39 cm (15.4 in)	53 cm (20.9 in)
Optic Material	Poly-View™ 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)				
Inspection Capabilities and Applications					
Midwave IR and Longwave IR; Ultraviolet (UV); Visual Inspection; Medium/High Voltage Applications					
Certifications					
UL Listed (E491496)					
Certified by UL (USA) & cUL (Canada) to the following standards: 50V, 50E, 756C: Impact and Flammability, 746C & 746A-2012, 1558: Impact and Load Resistance, 508A: ANSI 508A					
CSA C22.2 No. 14-13, C22.2 No. 14-10, C22.2 No. 94-M91, C22.2 No.94.1-07, C22.2 No. 94.2-07					
Lloyds of London Type Approval					
American Bureau of Shipping (ABS)					
DNV (Det Norske Veritas) P261.1E Maritime, Vessel and Offshore Applications					
IEEE C37 20.7 Type 2B, C37 20.2.a.3.6: Impact and Load					
IEC 62271-200, 60262271-200,60298 Appendix A, 60068-2-6:2007, 60068-2-3, 60068-2-78:2012					
Other					
Warranty	Unconditional Lifetime Warranty				

*Caution: These dimensions are not installation dimensions. Do NOT cut prior to receiving your IRISS IR window and installation template.
Specifications are subject to change without notice. For the most up-to-date specs, go to www.iriss.com