

# FIBOX

Enclosing innovations

## FIBOX SOLAR SOLUTIONS





# ENCLOSURES FOR SOLAR POWER

If you're looking for enclosures that are going to offer longevity of life, UV stabilised, corrosive and rust free, then Fibox is the solution you are needing to support your Solar Installation. Fibox provides non-metallic polycarbonate weatherproof enclosures offering the best of all worlds.

Our non-conductive, rust-free, thermal-set plastic has a much higher impact resistance than metal or fiberglass. Fibox offers unparalleled UV protection, tested to withstand 5,000 hours in an accelerated aging test without blooming like fiberglass. Our radio transparent plastic is ideal for remote solar applications eliminating the need for an external antenna.

Products are all UL rated and Glow Wire Tested (IEC 60695) complaint provide a dry and dust-free environment in even the harshest locations, thanks to the formed-in-place PUR gasket.

Lastly, polycarbonate is exceptionally lightweight, easy to transport and modify, and handles cold and blazing heat. Fibox's ARCA IEC 806030 quickly dissipates the heat generated by busbars in today's 400 and 500 amp applications.



# WHY FIBOX

Fibox is your partner in powering a brighter future! We offer a comprehensive solution to ensure your solar enclosures are fully prepared for optimal performance, from start to finish.

## Cable management

Fibox offers excellent cable glands, membrane glands, angles, and cable entry solutions. Fibox's cable entry solutions maintain your enclosures' high ingress ratings to protect your investment from external forces.



## Ventilation devices

Fibox's enclosure vent kits allow air to circulate and minimize condensation within your enclosure. Featuring a molded-in-place gasket for a tight seal, these vent kits create a rain-tight environment, keeping your valuable components, cool, dry, and protected.



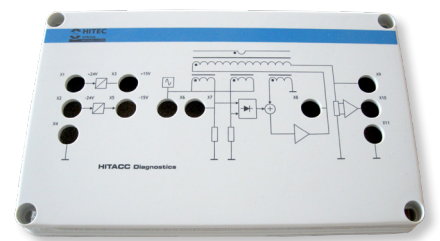
## Customisation

Fibox offers complete enclosure customisation to meet your specifications, starting with high-precision machining and printing. Our sophisticated CNC machinery can create holes, cutouts, recesses, and other features to access and interact with your electronics.

Elevate your brand identity: We offer digital printing to directly apply your logos, taglines, or critical information, such as safety instructions and QR codes, onto the enclosure, ensuring clear visibility.

Seamless integration: We can even provide light assembly services, integrating your chosen Fibox accessories like cable glands, DIN-Rails, mounting panels, PEMS, spacers, vents, and more for a complete solution.

Let our in-house applications team work with you to find the perfect solution for your unique needs.



# ARCA – IEC

## Combiner Boxes and Inverter Boxes

The largest polycarbonate enclosure on the market, the ARCA - IEC is ideal for housing critical inverter and combiner box components.

Driven by market demand, the ARCA - IEC is the ideal, cost-effective alternative to powder coated cabinets needed in demanding locations. It features the strength of a metal box with the added benefits of lightweight, rust-free, high-grade thermoplastic.



**Polycarbonate:** IP 66, IK 10

| DIMENSIONS MM   |                 |                 |
|-----------------|-----------------|-----------------|
| 200 x 300 x 150 | 400 x 300 x 210 | 500 x 700 x 300 |
| 300 x 200 x 150 | 400 x 400 x 210 | 600 x 400 x 210 |
| 300 x 300 x 210 | 400 x 500 x 210 | 600 x 800 x 300 |
| 300 x 400 x 150 | 400 x 600 x 210 | 700 x 500 x 300 |
| 300 x 400 x 210 | 500 x 400 x 210 | 800 x 600 x 300 |
| 400 x 300 x 150 | 500 x 500 x 210 |                 |

# MCE65

## Combiner Boxes, DIN Rail Mounted PV Components

The MCE series is designed to house Din Rail mounted components from Circuit Breakers, Lightning Protection, to monitoring components and is particularly suitable for Combiner Boxes incorporating intelligent monitoring and non-intelligent components.

The series is designed for rapid assembly and disassembly and provides assured weatherproofing in all conditions. The rugged thermoplastic material ensures total electrical insulation to 1000 V AC & 1500 V DC.



**Polycarbonate:** IP 65, IK 08

| DIMENSIONS MM               |                              |                              |
|-----------------------------|------------------------------|------------------------------|
| 127 x 200 x 120 (4 modules) | 318 x 258 x 142 (12 modules) | 318 x 507 x 142 (36 modules) |
| 165 x 201 x 120 (6 modules) | 259 x 428 x 142 (18 modules) | 318 x 663 x 142 (48 modules) |
| 200 x 200 x 120 (8 modules) | 318 x 383 x 142 (24 modules) |                              |



# MNX

## Inverter Boxes, Junction Boxes, and Tracking Systems

The MNX series is ideal for demanding environments. It features over 260 variations and formed-in-place metric knockouts for easy cable management.

MNX enclosures are designed to house and protect electrical and electronic components in hostile environments. This robust workhorse is an easy-to-install, worry-free solution.



**Polycarbonate:** IP 66/67, IK 08

| DIMENSIONS MM       |                      |                      |                      |
|---------------------|----------------------|----------------------|----------------------|
| 100 x 100 x 35      | 130 x 130 x 35       | 180 x 130 x 75 (KO)  | 255 x 180 x 63 (KO)  |
| 100 x 100 x 50      | 130 x 130 x 50       | 180 x 130 x 85 (KO)  | 255 x 180 x 75 (KO)  |
| 100 x 100 x 60 (KO) | 130 x 130 x 100      | 180 x 130 x 100 (KO) | 255 x 180 x 88       |
| 100 x 100 x 75 (KO) | 130 x 130 x 60 (KO)  | 180 x 130 x 125 (KO) | 255 x 180 x 100 (KO) |
| 130 x 80 x 35       | 130 x 130 x 75 (KO)  | 180 x 130 x 150 (KO) | 255 x 180 x 125 (KO) |
| 130 x 80 x 50       | 130 x 130 x 100 (KO) | 180 x 180 x 60 (KO)  | 255 x 180 x 150 (KO) |
| 130 x 80 x 60 (KO)  | 130 x 130 x 125 (KO) | 180 x 180 x 75 (KO)  | 255 x 180 x 175 (KO) |
| 130 x 80 x 75 (KO)  | 180 x 130 x 35       | 180 x 180 x 100 (KO) | 360 x 255 x 152      |
| 130 x 80 x 100 (KO) | 180 x 130 x 50       | 180 x 180 x 125 (KO) |                      |
| 130 x 80 x 125 (KO) | 180 x 130 x 60 (KO)  | 180 x 180 x 150 (KO) |                      |

# SOLID

## Combiner Boxes, Inverter Boxes and Junction Boxes

SOLID enclosures are an excellent choice for housing a solar power system's critical electronic and electrical components.

The SOLID series is available with screw and hinge covers.

The SOLID series features an extension frame, allowing for increased enclosure depth while maintaining all UL, IP, and IK classifications.



**Polycarbonate:** IP 66/67, IK 09

| DIMENSIONS MM   |                 |                 |
|-----------------|-----------------|-----------------|
| 190 x 190 x 130 | 280 x 280 x 180 | 560 x 280 x 130 |
| 190 x 190 x 180 | 380 x 190 x 130 | 560 x 380 x 180 |
| 280 x 190 x 130 | 380 x 190 x 180 | 760 x 560 x 250 |
| 280 x 190 x 180 | 380 x 280 x 130 |                 |
| 280 x 280 x 130 | 380 x 280 x 180 |                 |

# WINDOWS

## Protection Windows

Protection windows built to serve and protect the human/machine interface from accidental or malicious tampering by being lockable yet offering clear transparency for perfect viewing.

The ease of installation and versatility of the Protection Windows make them a valuable addition to any electrical panel. These windows can be seamlessly integrated into various panel configurations.

**Polycarbonate:** IP65, IK09

### DIMENSIONS MM

291 x 244 x 88

340 x 300 x 90

394 x 346 x 88

450 x 400 x 90

503 x 451 x 88



## Inspection Windows

Even the best enclosure may need a little extra to maximise its value in its chosen environment. The Inspection Windows have been built to protect Din-Rail mounted components, accommodating from 2 modules up to 26 modules configured in 3 rows.

The hinged windows are easy to fit and provide protection against the ingress of dust and water as well as protection against physical impact.

**Polycarbonate:** IP65, IK08

### DIMENSIONS MM

248 x 128 (12 modules - smoked transparent cover)

257 x 108 (13 modules - clear cover)

248 x 218 (24 modules - smoked transparent cover)

331 x 277 (26 modules - smoked transparent cover)

377 x 331 (36 modules - smoked transparent cover)



# APPLICATIONS

- Battery Enclosures
- Combiner Boxes
- Communication Systems
- Control Systems & Switchboards
- Data Acquisition Systems (DAS)
- Disconnect Boxes
- Grounding Equipment
- Metering Devices
- (PV) Junction Boxes
- Power Conditioning Equipment (PCS)
- Rapid Shutdown Solutions
- Splice Combiners
- Tracking Systems
- (PV) Transition Boxes



## Enclosures for All Weather

When deciding what enclosure to utilize for the various Balance of System (BOS) components in a solar power project, you should consider the following:

- Humidity
- Temperature
- Particle Ingress
- UV Exposure

Fibox polycarbonate weatherproof enclosures offer the best of all worlds. All products are UL and Glow Wire tested (IEC 60695) as well as IP and IK rated, offering a safe, dry and dust-free environment in event the harshest of locations.



## Rustproof

Thermoplastic polycarbonate construction ensures Fibox enclosures resist corrosion and deliver lasting performance in any environment, keeping your critical components protected.



## Ingress Protection

Designed to keep out water, dust, sand, and other airborne particles.



## UV Resistance

Fibox Polycarbonate Enclosures are built to last. Tests simulating 25 years of direct sunlight showed Fibox enclosures outperform the competition in UV resistance and impact strength.



## Fibox Polycarbonate Advantages

- **Rust-Free & Durable:** No delamination, lasting protection.
- **High Impact Resistance:** Absorbs impact and bounces back for superior protection.
- **Extended Field Life:** Saves you money on replacements.
- **WI-FI Friendly:** Clear signal, no bulky antenna needed.
- **Cost-Effective:** Lightweight, reduces shipping costs, with greater protection.
- **Water-Tight and Dust Free:** Keep components dry and particle free.





# **Fibox enclosures are the ideal solution for safeguarding your PV components.**

Our industry-leading product lines of polycarbonate enclosures deliver unmatched protection against harsh elements, ensuring your photovoltaic system operates at peak performance for years to come.



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