FIBOX
Enclosing innovations

FIBOX SOLAR SOLUTIONS 3.0

NEMA 4X | −40°F | 175°F

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: NEMA 1, 4, 4X, 12 & 13; IP 66, IK 10

DIMENSIONS INCHES		
7.87 x 11.81 x 5.9	15.75 x 15.75 x 8.26	19.68 x 19.68 x 11.81
11.81 x 7.87 x 5.9	15.75 x 11.81 x 8.26	23.62 x 15.75 x 8.27
11.81 x 11.81 x 8.26	15.74 x 19.68 x 8.26	23.62 x 31.49 x 11.81
11.81 x 15.78 x 5.9	15.74 x 23.62 x 8.26	27.55 x 19.68 x 11.81
11.81 x 15.78 x 8.26	19.68 x 15.75 x 8.27	31.49 x 23.62 x 11.81
15.75 x 11.81 x 5.9	19.68 x 15.75 x 8.27	

ARCA – JIC

Rapid Shutdown Boxes, Transition Boxes, Junction Boxes and Tracking Systems

The ARCA - JIC is available with screw or hinged covers for easy access and is available in JIC standard dimensions and panels. Many sizes are available with raised opaque or transparent covers.

Select sizes offer increased real estate with a sleek, flat, opaque cover design (FC) and optional industry-standard ¾ and ½ inch pre-formed knock-outs (KO).

Polycarbonate: NEMA 1, 4X, 6/6P, & 12; IP 66/67; IK 09

DIMENSIONS INCHES			
6 x 6 x 4	10 x 8 x 4	12 x 10 x 6 (KO)	20 x 16 x 8
8 x 6 x 4 (FC) (KO)	10 x 8 x 5 (FC) (KO)	14 x 12 x 6 (FC) (KO)	24 x 20 x 8
8 x 6 x 5 (KO)	10 x 8 x 6 (KO)	14 x 12 x 7 (KO)	24 x 24 x 10
8 x 8 x 4	10 x 10 x 6	16 x 14 x 8	
10 x 8 x 3 (FC)	12 x 10 x 5 (FC) (KO)	18 x 16 x 10	

The ARCA IEC & JIC Series offers versatile mounting options, including wall-mount enclosures and pole-mounting brackets (sold separately), and are unistrut compatible.

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 work-horse is an easy-to-install, worry-free solution.

Polycarbonate: NEMA 1, 4, 4X, 6, 12 & 13; IP 66/67; IK 08

DIMENSIONS INCHES			
3.9 x 3.9 x 1.4	5.1 x 5.1 x 1.4	7.1 x 5.1 x 3.3 (KO)	10 x 7.1 x 2.5 (KO)
3.9 x 3.9 x 2.0	5.1 x 5.1 x 2.0 (KO)	7.1 x 5.1 x 3.9 (KO)	10 x 7.1 x 3.0 (KO)
3.9 x 3.9 x 2.4 (KO)	5.1 x 5.1 x 2.4 (KO)	7.1 x 5.1 x 4.9 (KO)	10 x 7.1 x 3.5 (KO)
3.9 x 3.9 x 3.0 (KO)	5.1 x 5.1 x 3.0 (KO)	7.1 x 5.1 x 5.9 (KO)	10 x 7.1 x 3.9 (KO)
5.1 x 3.1 x 1.4	5.1 x 5.1 x 3.9 (KO)	7.1 x 5.1 x 6.9 (KO)	10 x 7.1 x 4.9 (KO)
5.1 x 3.1 x 2.0	5.1 x 5.1 x 4.9 (KO)	7.1 x 7.1 x 2.4 (KO)	10 x 7.1 x 5.9 (KO)
5.1 x 3.1 x 2.4 (KO)	7.1 x 5.1 x 1.4	7.1 x 7.1 x 3.0 (KO)	10 x 7.1 x 6.9 (KO)
5.1 x 3.1 x 3.0 (KO)	7.1 x 5.1 x 2.0	7.1 x 7.1 x 3.9 (KO)	14.2 x 10.0 x 6.0 (KO)
5.1 x 3.1 x 3.9 (KO)	7.1 x 5.1 x 2.4 (KO)	7.1 x 7.1 x 4.9 (KO)	
5.1 x 3.1 x 4.9 (KO)	7.1 x 5.1 x 3.0 (KO)	7.1 x 7.1 x 5.9 (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: NEMA 1, 4X, 6/6P, & 12; IP 66/67; IK 09

DIMENSIONS INCHES		
7.4 x 7.4 x 5.1	14.9 x 7.4 x 5.1	14.9 x 10.9 x 5.1
7.4 x 7.4 x 7.1	14.9 x 7.4 x 7.1	14.9 x 10.9 x 7.1
10.9 x 7.4 x 5.1	10.9 x 10.9 x 5.1	22.0 x 10.9 x 5.1
10.9 x 7.4 x 7.1	10.9 x 10.9 x 7.1	22.0 x 14.9 x 7.1

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. They are cUL/UL-listed NEMA 4X & 6P, and UL 1741 complaint and provide a dry and dust-free environment in even the harshest 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.

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, anges, 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.

Weight Distribution Shelf

The ARCA Weight Distribution Shelf (AWDS) prevents strain on your Fibox enclosures from heavy equipment. This sturdy, easy-to-install metal shelf evenly distributes weight from equipment, protecting your Fibox enclosures and extending their lifespan.
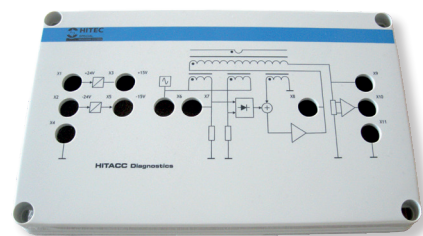
Customization

Fibox offers complete enclosure customization 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.

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

Our industry-leading product lines of UL-listed NEMA type 4X polycarbonate enclosures deliver unmatched protection against harsh elements, ensuring your photovoltaic system operates at peak performance for years to come.

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All data subject to change.
Fibox Solar V1.0 4.30.24