

Nonmetallic, non-corrosive

# Enclosure Solutions

engineered for

# SOLAR

## INDUSTRY APPLICATIONS

*Tracker Control*

*Combiner Box*

*Array Junction Box*     *Solar*

*Battery Box*

*SCADA*

*Inverter Box*

*Charging Station*

*Remote Terminal Unit*

*Connector Box*

*Motor Speed Control*

*Generator Junction Box*

*Recombiner*

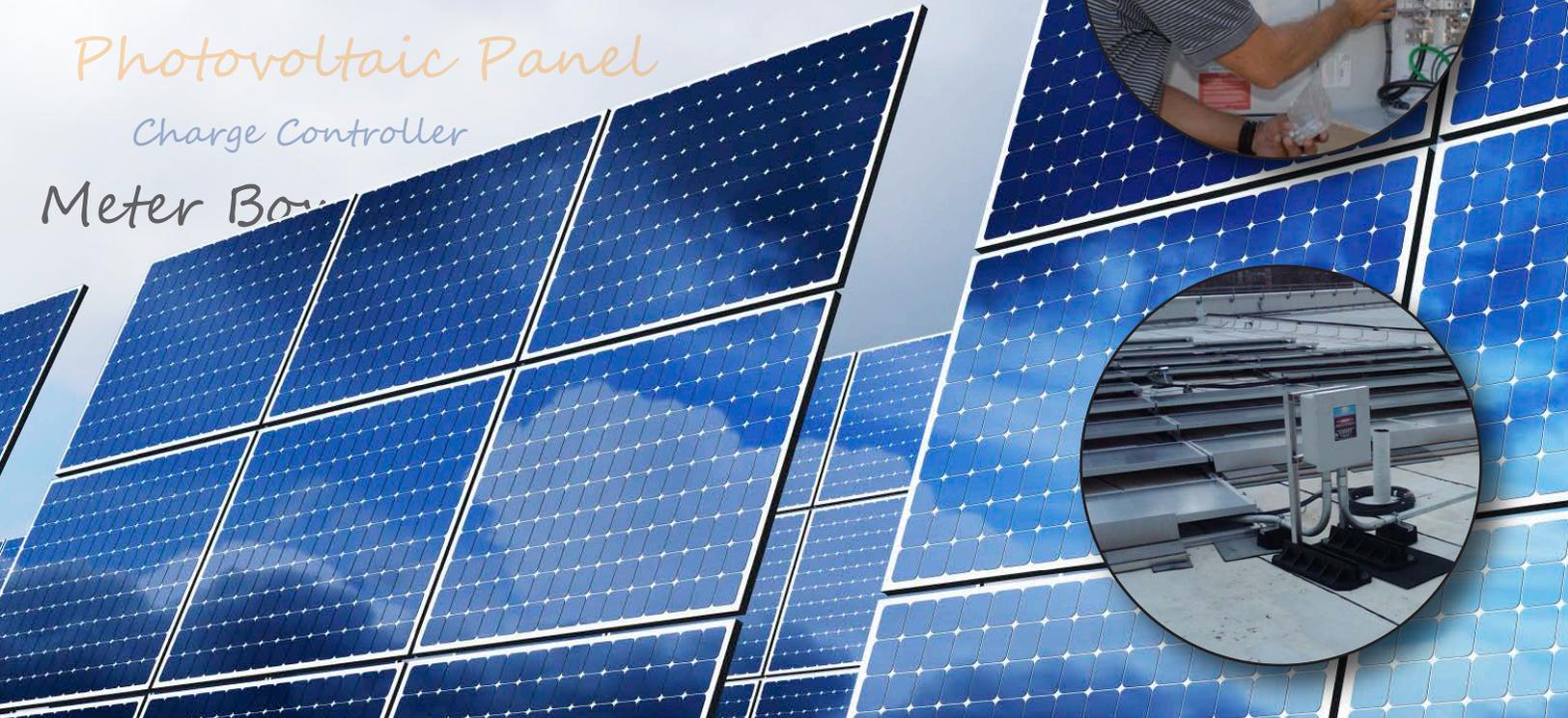
*Control Panel*

*Co-Generation*

*Photovoltaic Panel*

*Charge Controller*

*Meter Box*



# Solar Advantages

## Advantages of Using Allied Moulded Enclosures

Allied Moulded fiberglass and polycarbonate enclosures deliver high performance versus metal enclosures. Our nonmetal enclosures provide superior protection properties against extreme weather environments and ultraviolet rays. Allied Moulded's nonmetal enclosures resist extremes in temperature and are flame retardant, resulting in a very capable product for indoor or outdoor applications. Nonmetal enclosures also exhibit excellent rigidity/stiffness characteristics, allowing the enclosures to be well-suited for conduit installation through their walls.

### 1. Strength and Endurance

Allied Moulded's nonmetal enclosures are lightweight, extremely strong, and robust. They have a high resistance to corrosion and will not rust. They are ideal for applications used outside that must withstand weather and UV exposure, or applications in harsh environments.

### 2. Cost Conscious

Nonmetal enclosures offer significant savings over stainless steel in material costs and also lower costs for maintenance and warranty work. A lighter and stronger nonmetallic product results in lower costs for shipping and storage and is also easier for a single contractor to install in wall-mount applications, saving time and labor.

### 3. Appearance

Nonmetallic enclosures are aesthetically pleasing to the eye. There is very little maintenance required and they don't rust. A specific color can be molded into any enclosure. Text and logos can be screen printed onto covers for private labeling and instructional needs.

### 4. Custom Design Flexibility

Allied Moulded's enclosures can be conveniently punched, drilled, or sawed for the exact modifications to suit your application. With our ULTRAPLUG® hole plug assemblies, it's easy to maintain applicable NEMA and UL enclosure ratings.

## Industry Applications



A variety of industry applications are well-suited for Allied Moulded electrical enclosures. Our unique and diverse product line provides multiple sizes, latching options, cover options, and modification options to suit a specific project, while also providing superior protection properties in the most extreme environments.



# Applications & Solar Panel Systems

## Worldwide Solar Application Systems

Allied Moulded fiberglass enclosures can be found in a multitude of solar applications all over the world in industrial markets. Our unique ULTRAGUARD® UV resistant enclosure material protects equipment in the most rigid environments, and resists extremes in temperature and are flame retardant, resulting in excellent protection in outdoor applications. Fiberglass and polycarbonate enclosures from Allied Moulded remain light-weight and are an excellent substitute to the often-heavy and hard-to-handle steel enclosures. This is especially beneficial in applications on existing building structures not designed to support the additional weight of solar arrays.

Allied Moulded enclosures can be easily modified to fit a variety of applications and requirements including custom cutouts, color matching, silk-screen printing, and much more!

Below is an example of a residential solar application where electrical enclosures are a necessary function for usability. Not all applications are the same; Allied Moulded provides a variety of enclosures to fit multiple applications.



## Large Scale Solar Power Stations

Our nonmetallic electrical boxes are found in solar farm applications such as combiner boxes, DC disconnects, battery storage, weather stations, pump control panels, remote monitoring, and surveillance systems. Each of our enclosures provide a unique solution to a variety of solar construction sites throughout the world and remain resistant to UV exposure and harsh environments including rain, sleet, snow, ice, dirt and dust. Excellent quality remains our top priority as you trust Allied Moulded electrical enclosures for your electrical components and accessories.



## Small Scale Solar Stations

Solar application installations throughout residential markets are on the rise. Our boxes continue to be a quality solution for contractors and homeowners investing in renewable energy initiatives. Enclosure uses include combiner boxes, inverters, AC disconnects, battery storage, and controllers, all while looking aesthetically pleasing to the eye! Trust Allied Moulded enclosures for your next solar application installation.

## Applications for Allied Moulded Enclosures

**Combiner Box**

**Smart Grid**

**Inverters**

**Remote Location Battery Storage**

**SCADA Systems**

**Weather Stations**

**Solar Heating Systems**

**Gas Detection System**

**Lighting Applications**

**Pump Controller**

**Surge Protection**

**Telecommunication Networks**

**Surveillance Systems**

# Allied Moulded Products, Inc. Advantage

Allied Moulded Products, Inc. (Allied Moulded) is the Contractor's Choice of nonmetallic electrical boxes and enclosures in today's residential, commercial and industrial markets. Leveraging more than half-a-century of experience, Allied Moulded has grown to become the benchmark of quality within the electrical industry. Our full-service molding operation includes expertise in compression and injection molding, using thermoset and thermoplastic materials, as well as our unique resin transfer molding process. Utilizing a modern, automated assembly process, we are pleased to provide our customers with a superior product at a competitive price. Our unrelenting focus on service, delivery, value, innovation and technology in everything we make and do, has made us who we are today.

Allied Moulded's industrial enclosures are utilized in many different control applications such as industrial & manufacturing plants, waste water treatment, wind turbines, security, SCADA, solar, marinas, data & telecommunications, mining, and more. Allied Moulded's extensive line of NEMA type 4X/IP66 fiberglass reinforced polyester (FRP) enclosures, made with our proprietary ULTRAGUARD® resin formulation, outperform our competitors in the areas of: yellowing, gloss retention, discoloration and change in texture. With a wide range of sizes, accessories and customizations available, Allied Moulded offers a complete solution to your industrial enclosure needs. In addition to fiberglass, Allied Moulded also offers our POLYLINE® series, a line of polycarbonate, injection-molded enclosures.

Allied Moulded's products are marketed in the U.S. primarily through an extensive network of professional manufacturer's reps, all specialists and experts in electrical boxes and enclosures. In addition, our residential line is available through leading home improvement and hardware retail chains. Allied has expanded our global reach, with the addition of Allied Moulded Enclosure Products (India) Pvt Ltd. This new 40,000-square-foot manufacturing facility produces our Industrial line J.I.C. (Joint Industrial Council) and Empire enclosures, for the India and Middle East markets.



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