



Solar Energy Enclosures

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We see enclosures differently. $^{\text{TM}}$

Solar Energy Enclosures

Inverter Enclosures











Design Considerations:

Environmental Controls

- UL 1741
- · Air-flow and cooling
- NEMA 3R / 4 and 12 sealing
- · E-coat anti-corrosion
- · EMI/RFI shielding
- Snow load & Seismic considerations

Access Control

- · Integral locks
- · Safety fasteners
- Pad-Locks
- · Internal releases

Overall Footprint

- · French doors to minimize door swing
- · Locks to hold doors open in high wind

Installation

- · Lifting options for crane or helicopter
- · Forklift considerations
- · Pad/Floor tie downs
- Leveling

Equipment Access From Multiple Sides

- · Removable panels
- · High capacity slides
- · Weight of doors and panels
- Human & Ergonomic Factors

Common Inverter Enclosure Sizes







500kw



1MW

Why Crenlo:

In the dynamic and increasingly automated world of energy production, protection of vital components requires a number of new considerations. For that reason, it is important to select a manufacturer that is capable of supporting the market evolution with their manufacturing capacity and custom design capabilities. Crenlo meets that description with their line of custom enclosures.

Crenlo's solar market enclosures are designed and manufactured with the system integrator in mind, using the highest quality components to ensure long-term field reliability. All products are assembled in our plant in Rochester, MN and we guarantee customer satisfaction.

Solar Energy Enclosures

Combiner Boxes / Junction Boxes



Design Considerations:

- NEMA 3R/4 and 12 sealing
- E-coat anti-corrosion
- · Galvanized or Galvaneal / Aluminum
- Cooling
- Wire management & protection
- Mounting points for a variety of hardware solutions

DC Disconnect Box



Design Considerations:

- UL
- · Integration with inverter
- Displays
- NEMA 3R / 4 and 12 sealing
- · Color / finish
- Multiple control/switch/lever options

Inverter Housing



Design Considerations:

- · Safety & security
- · Wiring management & protection
- · Solar shield for inverter cooling
- · Ease of installation



Custom Design Capabilities

Our capabilities include everything from initial consulting to implementation of all aspects important to custom inverter protection:

- Aesthetics
- · Airflow/cooling
- Weatherproofing
- Serviceability
- EMI/RFI shielding
- Finite element analysis
- Thermodynamic analysis



Manufacturing Capabilities

We have the capabilities to support the evolving technological landscape of the energy market.

- 60-year history of enclosure manufacturing
- State-of-the-art facilities
- In-house e-coating and powder paint
- Materials and an operations strategy that accommodates cost-effective production of highly custom and low-volume solutions

Crenlo's Enclosure Product Portfolio

Standard Enclosures













ESQ

FP1

FP2

10 Series®

Wall Mount

Custom Enclosures











Inverter Enclosure

Kiosk

Video Wall

Package Drop Box

