



ELECTRICAL ENCLOSURES

Power Distribution & Protection Solutions

Overview

PDCA's Electrical Enclosures are robust, modular, and designed to meet the most demanding industrial and commercial requirements. These enclosures provide reliable housing for electrical equipment, protecting it from environmental hazards while ensuring system safety, continuity, and ease of maintenance.

Built to international standards such as **IEC 61439** and **IEC 60529**, our range supports high-performance distribution and control systems.

GENERAL FEATURES

Safety Compliance:

All PDCA enclosures comply with major international standards, ensuring safety of personnel and equipment.

High Reliability:

Rated for ambient temperatures up to 50°C with no derating. Withstand harsh conditions in cement, steel, and marine industries.

Thermal and Seismic Resistance:

ACBs and MCCBs provide top-tier thermal management. Structures reinforced for seismic resistance as per IEC 60068-3-3:2013.

IP Protection:

IP42, IP 44 & IP55 models available to suit different environments — from clean commercial zones to wet, dusty, and corrosive industrial sites.

Maintenance-Free Design:

Front-accessible modular structure eliminates the need for rear servicing, optimizing space and reducing downtime.

Flexible Installation:

Suitable for flush wall or floor mounting, with front cable entry or bottom gland plate options.

 **+91-87935 93706 / +91-70207 56091**

Email Id - info@pdcaglobaltrade.com

**Add - R-11/6 Toranagad Nagar, Near Dhoot Hospital,
Chatrapati Sambhaji Nagar (Aurangabad)
Maharashtra, India 431001**

Web – www.pdcaglobaltrade.com



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GLOBAL TRADE

APPLICATION SEGMENTS

Sector	Application Examples
Buildings & Infrastructure	Airports, malls, hospitals, residential towers, hotels
Industrial	Factories, workshops, process industries
Utilities	Power substations, water treatment plants
Oil & Gas	Refineries, offshore rigs, petrochemical plants
Renewables	Solar PV and wind turbine electrical systems

PRODUCT RANGE

◆ AMF / SYNCHRONIZING PANELS

- Automatically manage switching between power sources (DG, grid, solar)
- Ensure uninterrupted power to critical infrastructure

◆ PCC PANELS (Power Control Center)



- Main distribution panel for industrial and commercial loads
- Protection against overcurrent, short circuit, and earth fault

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◆ **MCC PANELS (Motor Control Center)**

- Housing for motor starters (DOL, Star-Delta, Soft Starters)
- Intelligent motor protection and automation-ready design

◆ **APFC PANELS (Automatic Power Factor Correction)**

- Maintain optimal power factor with auto capacitor bank adjustment
- Reduce penalties and save on electricity bills



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◆ DRIVE PANELS

- Compatible with VFDs (Variable Frequency Drives)
- Smooth motor speed control for pumps, conveyors, HVAC, etc.



TECHNICAL SPECIFICATIONS

Parameter	Specification
Operating Voltage	Up to 690V AC
Frequency	50/60 Hz
Rated Current	Up to 6300 A
Fault Level	Up to 100 kA
Material	CRCA Steel / SS304 / Aluminum (optional)
Sheet Thickness	1.6 mm / 2.0 mm / 2.5 mm
Surface Treatment	7-Tank Pre-treatment, Powder Coated (RAL 7035/Custom)
Ingress Protection (IP)	IP40 / IP42 / IP54 / IP55 / IP56
Mounting	Floor / Wall / Flush Mount
Cable Entry	Top / Bottom / Rear (as required)
Standards	IEC 61439, IS 8623, IEC 60529

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ACCESSORIES & OPTIONS

- Cable ducting and management systems
- Control & metering devices
- Busbar chambers
- Rear and front doors with locking systems
- Ventilation louvers & fans
- Gland plates and earthing kits
- Seismic mounting frames

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