



Enabling to be powerful

POWERTECH
TRANSFORMERS & CONTROLS PVT LTD

LT PANELS

415V SYSTEMS

LOW TENSION SWITCHGEAR &
DISTRIBUTION PANELS



65KA
MAX SHORT CIRCUIT



4000A
MAX BUSBAR RATING



IP54 / IP42
MAX ENCLOSURE RATING



IEC 61439
IS 8623
COMPLIANT



RELIABLE. SMART.
BUILT FOR EVERY LOAD.



PCC

POWER CONTROL
CENTRE



MCC

MOTOR CONTROL
CENTRE



APFC

AUTO PF
CORRECTION



DG SYNC

AUTO
SYNCHRONISING



CHILLER

HVAC
CONTROL



FIRE

PUMP
CONTROL



LIGHTING

ZONE
DISTRIBUTION



UPS

CRITICAL IT
SUPPLY

ABOUT POWERTECH

Powertech Transformers & Controls Pvt Ltd is a Hyderabad-based electrical equipment manufacturer with **25+ years** of experience in delivering high-quality power and distribution solutions across industries.

From transformers to HT/LT panels and EPC solutions under Powerline, we deliver complete electrical infrastructure with reliability, innovation and excellence.



WHAT WE DO



LT PANELS
(18+ Types)



TRANSFORMERS
(Oil & Dry Type)



CT / PT
(Instrument Transformers)



HT PANELS
(11kV & 33kV)



EPC TURNKEY PROJECTS
(Powerline Division)

OUR STRENGTHS



IN-HOUSE MANUFACTURING
State-of-the-art facility with advanced machinery and skilled engineering team.



CUSTOM-ENGINEERED SOLUTIONS
Designed to match your single line diagrams and application requirements.



100% TESTED PANELS
Every panel is tested for safety, performance and compliance before dispatch.



END-TO-END SUPPORT
From engineering to commissioning, we stand with you at every step.



25+
YEARS
EXPERIENCE



1000+
PANELS
DELIVERED



18+
PANEL
TYPES

COMPLETE PRODUCT RANGE - ONE VENDOR, EVERY ELECTRICAL NEED



OIL TRANSFORMERS



DRY TYPE
TRANSFORMERS



SOLAR IDT



CT / PT
(APG CAST)



11kV VCB
PANELS



33kV VCB
PANELS



LBS / RMU



LT PANELS
(18 TYPES)



EPC
TURNKEY

MAIN PANEL RANGE

Engineered for performance.
Built for every application.



01 PCC - POWER CONTROL CENTRE

Main incomer panel with ACB, full protection and metering. Multi-feeder distribution.

- > Up to 4000A Incomer
- > Up to 65kA Short Circuit
- > Multi-feeder Distribution



02 MCC - MOTOR CONTROL CENTRE

Motor feeders with DOL / Star-Delta / VFD starters and protection. Auto duty-standby logic available.

- > Up to 200kW per feeder
- > DOL / Star-Delta / VFD
- > Auto Duty-Standby



03 APFC PANEL

Automatic power factor correction panel with capacitor banks and APFC relay. Maintains PF up to 0.99 automatically.

- > 6 / 16 Step Control
- > Target PF up to 0.99
- > Reduces Utility Penalties



04 DG SYNCHRONISING PANEL

Synchronising and paralleling panel for multiple DGsets with AMF and load sharing.

- > AMF Auto Start
- > Sync Check & Load Sharing
- > Multiple DG Management



05 MLDB - MAIN LT DISTRIBUTION BOARD

Secondary distribution panel below the PCC. Distributes power to sub-distribution boards across floors or zones.

- > MCCB Based Feeders
- > Floor / Zone Distribution
- > Up to 1600A Incomer



06 PDB - POWER DISTRIBUTION BOARD

Final distribution board for industrial or commercial loads. MCB-based outgoing circuits.

- > MCB / RCCB / RCBO Circuits
- > Single or 3-Phase
- > IP41 / IP42 / IP54



SPECIAL - CT KIOSK (HV METERING CUBICLE)

The CT Kiosk is a metering cubicle housing Class 0.2S CTs, PTs, and a DISCOM-approved revenue energy meter. Supplied with test terminal blocks, CT shorting links, DISCOM padlock sealing provision and TOD meter capability. Available for 11kV and 33kV. Manufactured alongside our in-house CT/PT division - full type test compliance to IS 2705 / IS 3156.

- > 11kV / 33kV
- > Class 0.2S CT
- > DISCOM Approved
- > TOD Meter
- > AMR Ready
- > In-house CT/PT

SPECIALITY PANELS

Engineered for safe, reliable and efficient power management across every application.



EMERGENCY PANEL

Critical load backup from DG / UPS. Ensures uninterrupted power during outages.



CHILLER PANEL

HVAC control panel for chillers, AHUs, cooling towers and pumps. Integrated with BMS systems.



UTILITY PANEL

Distribution and control panel for utility services like pumps, STP, drainage and other auxiliaries.



UPS PANEL

Designed for IT and critical loads. Ensures clean and reliable backup power supply.



FIRE PANEL

Fire pump control panel with manual / auto operation. Built as per NBC / NFPA standards.



LIFT PANEL

Control and protection panel for elevators and lifts. Reliable and compact design.



LIGHTING PANEL

Smart lighting distribution with MCBs / MCCBs, contactors, timers and sensors.



IT & MEDICAL PANEL

Specially designed for IT rooms, data centers and medical areas with high reliability.

OTHER PANELS



METER PAXES

Individual and modular metering solutions for tenants.



OUTDOOR PANELS

Weatherproof panels with high protection upto IP65.



RTCC PANELS

On-load tap changer control panel for transformers.



MARSHALLING BOXES

Interface and termination solutions for field instruments.



LBS PANELS

Load Break Switch panels for safe power isolation.

TECHNICAL SPECIFICATIONS

Engineered to exceed standards.
Built for performance and reliability.



ELECTRICAL RATINGS

Rated Voltage (Ue)	415V / 230V AC
Rated Frequency	50 Hz
Rated Insulation Voltage (Ui)	1000V
Rated Impulse Withstand (Uimp)	8 kV
Max. Busbar Current (In)	Up to 4000A
Max. Short Circuit (Icc)	Up to 65kA for 1 Sec
System	3P / 4P
Form of Segregation	Form 1, Form 2, Form 3, Form 4



SWITCHGEAR BRANDS



STANDARDS COMPLIANCE

- IEC 61439 - Low Voltage Switchgear & Controlgear Assemblies
- IS 8623 - Low Voltage Switchgear & Controlgear Assemblies
- IEC 60947 - Low Voltage Switchgear & Controlgear
- IS/IEC 62271 (where applicable)



CONSTRUCTION

Enclosure Material	CRCA Sheet Steel
Sheet Thickness	1.6mm / 2.0mm / 3mm
Surface Finish	Powder Coated
Standard Color	RAL 7032 (Light Grey) Other shades on request
Degree of Protection	IP41 / IP54
Mounting	Floor Mounting
Door	Single / Double Door
Cable Entry	Top / Bottom
Internal Separation	Form 1 to Form 4

*Higher protection (IP55/IP65) available on request.



PROTECTION FEATURES

- Overcurrent & Short Circuit Protection
- Earth Fault Protection
- Motor Protection (Thermal / Electronic)
- Surge Protection (SPD)
- Under / Over Voltage Protection
- Auto Transfer (ATS) & Interlocking
- Phase Failure / Sequence Protection

**BUILT FOR
EVERY LOAD**



**INDUSTRIAL
RELIABILITY**

Designed for tough
industrial environments.



**MAXIMUM
SAFETY**

Ensuring protection
for people and assets.



**HIGH
PERFORMANCE**

Optimized design for
uninterrupted operations.



**LONG TERM
DURABILITY**

Built to last with superior
components and finish.

QUALITY & TESTING

Every panel is built with precision.
Every panel is tested for performance.

EVERY PANEL UNDERGOES



IR TEST

Insulation resistance test at 1000V DC to ensure high insulation integrity.



HV WITHSTAND TEST (2.5kV)

High voltage test applied to ensure dielectric strength and operator safety.



EARTH CONTINUITY

Continuity test on earth circuit to ensure effective earthing.



WIRING CONTINUITY

All control and power wiring continuity verified for accuracy and reliability.



FUNCTIONAL TESTING

Complete functional testing of all incomers, feeders and interlocks.



FINAL INSPECTION

Visual inspection, label verification and workmanship check.

PRECISION MANUFACTURING



CNC PUNCHING MACHINE

High precision punching for perfect accuracy.



CNC PRESS BRAKE

Accurate bending for superior panel structure.



POWDER COATING PLANT

Advanced coating for long lasting corrosion protection.



PANEL ASSEMBLY LINE

Skilled assembly with attention to every detail.

OUR ASSURANCE



100% TESTED

Each panel is fully tested before dispatch.



CERTIFIED QUALITY

Built as per national & international standards with full traceability.



DELIVERED READY-TO-INSTALL

Tested, verified and dispatched for immediate installation on site.

APPLICATIONS & INDUSTRIES

Our LT panels are designed to deliver reliable power distribution across a wide range of sectors and critical applications.



INDUSTRIES WE SERVE



INDUSTRIAL PLANTS

Reliable power distribution for all types of industrial processes.



COMMERCIAL BUILDINGS

Safe and efficient power management for offices, malls, and complexes.



HOSPITALS & HEALTHCARE

Uninterrupted power for critical medical equipment and facilities.



SOLAR & RENEWABLE ENERGY

Integration-ready panels for solar plants and green energy systems.



WATER INFRASTRUCTURE

Power solutions for pumps, treatment plants, and water distribution.



RESIDENTIAL COMPLEXES

Safe distribution for high-rise apartments and gated communities.



HOTELS & INSTITUTIONS

Dependable power for hospitality, education and institutional setups.

TYPICAL SOLUTIONS



INDUSTRIAL SOLUTION



PCC
Main Power Control



MCC
Motor Control & Protection



APFC
Power Factor Correction



Reliable, Efficient & Cost Effective Operation



HEALTHCARE SOLUTION



PCC
Main Power Control



DG SYNC PANEL
Mains Backup & Synchronization



UPS PANEL
Critical Load Backup



Uninterrupted Power
for Life-Critical Applications



COMMERCIAL SOLUTION



PCC
Main Power Control



CHILLER PANEL
HVAC System Management



LIGHTING PANEL
Smart Lighting Distribution



UTILITY PANEL
Pumps, STP, Lifts & Other Utilities



TRUSTED IN **1000+** PROJECTS ACROSS INDIA

Delivering performance.
Building trust. Powering progress.

WHY CHOOSE POWERTECH?



TRUSTED QUALITY

Engineered for reliability, safety and long operational life.



CUSTOMISED SOLUTIONS

Tailored designs to meet specific project requirements.



EXPERT SUPPORT

End-to-end technical support from design to commissioning.



CUSTOMER FOCUSED

Committed to building long-term relationships through trust and service.

25⁺ YEARS

Legacy OF POWERING PROGRESS

For over 25 years, Powertech has been delivering reliable electrical solutions that empower industries and infrastructure across India.

Built on trust. Driven by innovation.
Powering a stronger tomorrow.



GET IN TOUCH

Share your requirements and our team will get back to you with the best solution.



Plot No. 62/2, Part CIE, Gandhi Nagar,
Balanagar, Hyderabad, Telangana 500037



www.powertechtransformers.in



info@powertechtransformers.in
marketing@powertechtransformers.in



+91 996 3333 752
+91 996 3333 758

OUR VALUED CLIENTS

