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# Expert Engineers

Control Panel Manufacturers





## Company Profile

Expert Engineers are a fast growing professionally managed engineering company engaged in the manufacturing of custom built low voltage electrical switchboards/control panel catering the needs of building, water, power and industrial sectors through its products to empower and enlighten the lives of people.

Our qualified professionals with best of their knowledge, experience and efforts bring together the human expertise and technology associated with innovations and creativity to generate brilliance.



## Certifications





## LV Control Panels

### Motor Control Centers

Motor Control Centers are used for connecting the individual motors for manually, remotely or automatically starting, stopping, selecting forward and reverse rotation, selecting and regulating the speed, regulating or limiting the torque and protecting against overload, single phasing, reverse phasing, phase imbalance, earth fault, under current, under/over voltage, lock rotor current, high winding temperature etc.



### Power Control Centers

**Power Control Centers** are used for distribution and control of power with protection of power source and equipments from short circuit, overload, earth fault, under and/or over voltage etc. The fault levels are as high as 50kA or 65kA for 1 second. The appropriate bus bar systems are incorporated to suit the fault level as well as to restrict temperature rise above ambient.



## LV Control Panels

### Auto Transformer Starters

Auto Transformer Starters are most popular electromechanical reduced voltage starting devices providing maximum starting torque and minimum starting current for large induction motors where availability of starting current is limited but a minimal starting torque is require. An induction motors draws 6 to 10 times of full load current while accelerating to full speed if directly connected to power supply.



### Auto Main Failure Panels

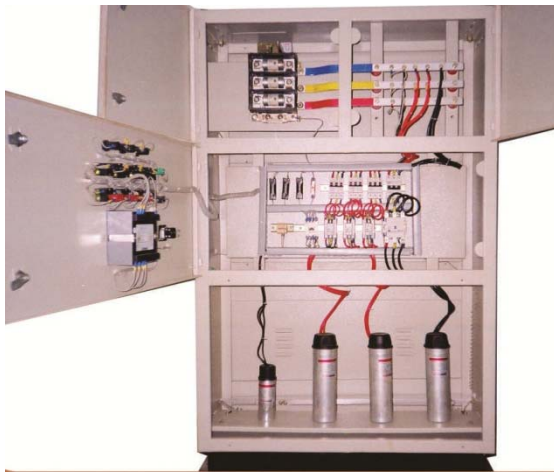
Auto mains failure panels are used to control start/stop of diesel generating sets in accordance with the availability of main power supply. The panels are manufactured for various capacities and different makes of diesel generating sets. These panels are incorporated with battery chargers, various protections for diesel engines.



## LV Control Panels

### VFD/PLC Panels

The programmable logic controller is the brain of PLC based panels. These panels are integral part of turnkey industrial automation projects as well as find wide application in standalone control systems and complex process and production operations. The PLC Panels are used with integration of instruments and devices viz VFD, PID Controllers, HMI, Servo Controllers, Digital meters, indicators etc.



### Auto Power Factor Control Panels

Automatic Power Factor Control Panel are installed to curtail power factor penalty and also to save energy by consistently maintaining higher power factor. Low power factor leads to poor power efficiency resulting in overloading of transformers, bus bars, switchgears, cables and other distribution devices.



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## SCADA System



The supervisory control and data systems (SCADA) are computer based systems to monitor, control, operate and record the processes in manufacturing, production, power generation, fabrication, water treatment, waste water purification, oil and gas pipelines and so-on. The programmable logic controllers connected to sensors in the process converts sensor signals to digital data.



## Cable Tray System

EXPERT specializes in manufacturing of reliable, adaptable, maintenance friendly and inherent safe cable tray management systems.

Cable trays provide excellent ventilation enhancing cable life and are flexible enough to be fixed with all structures.

Cable tray wiring systems offer significant advantages over conduit pipe and other wiring systems and are less expensive. The correct wiring system in design stage contributes to lower engineering and maintenance costs, ease of installations, less need to reconfigure system, less down time for handling systems, fewer environmental problems etc.

We are manufacturing Cable Trays, Cable Ducts, Raceways, Junction Boxes, Accessories etc in various types and sizes with different surface finishes e.g. powder coated, painted, hot dip galvanized, pre galvanized etc using finest raw material and best workmanship.

### **SPECIFICATIONS OF CABLE TRAYS**

Type	: Perforated/Ladder
Width	: 50mm to 700mm
Height	: 25mm to 150mm
Thickness	: 1.2mm to 3mm
Finish	: Powder Coated, Painted, Hot Dip Galvanized, Pre Galvanized
Material	: HR Sheets, CRCA Sheets, GI Sheets

We also manufacture cable tray fittings used to change size and direction of cable trays e.g. Straight Reducers, Offset Reducers, Vertical Elbows, Horizontal Elbows, Vertical Tee, Horizontal Tee, Cross etc





## Factsheet

Year of Establishment : 2009

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Nature of Business : Manufacturer, Supplier, Wholesaler  
Retailer, Distributor.

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Total Number of Employees : 25 to 30

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## Contact us:

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