TRIPASON®
Power Solution's

CERTIFIED ISO 9001:2015 COMPANY

UNITED KINGDOM ACCREDITATION FORUM CERTIFICATION LIMITED
UKAF CERT

MAKE IN INDIA

सत्यमेव जयते

MSME
MICRO, SMALL & MEDIUM ENTERPRISES
सूक्ष्म, लघु एवं मध्यम उद्यम

TRIPASON POWER SOLUTIONS PRIVATE LIMITED

(Save Electricity For Brighter Future)

ABOUT OUR COMPANY

WELCOME to TRIPASON POWER SOLUTIONS PRIVATE LIMITED

At TRIPASON, we are not just about electrical solutions; we're about powering your dreams and ensuring a brighter future. Our journey has been fueled by innovation, excellence, and an unwavering commitment to quality. Here's why you should partner with us:

Why Choose TRIPASON?

- State-of-the-Art Solutions: From cutting-edge electrical panels to advanced automatic servo voltage stabilizers and distribution transformers, we have everything to meet your unique needs.
- Expert Team: Our highly qualified professionals are dedicated to delivering top-notch projects that exceed your expectations.
- Comprehensive Services: Whether it's residential, commercial, or industrial, we've got you covered with our wide range of specialized services.

Our Specialties:

- APFC Panels: Boost efficiency with our automatic power factor corrector panels.
- Auto Changeover Panels: Seamlessly switch power sources with our reliable solutions.
- Motor Control Centers: Ensure smooth operation and control with our advanced motor control centers.
- Power Control Centers: Experience the best in power distribution and management.
- Instrument Switchboards: Precision and control at your fingertips.
- AMF Panels & Synchronizing Panels: Stay connected and in control with our automation and synchronization solutions.
- Power Process Panels: Customized solutions for your unique power process needs.

Our Promise:

- Quality: We ensure high standards of quality at every step, from designing to manufacturing and beyond.
- Reliability: Trust us to provide solutions that stand the test of time.
- Innovation: We constantly strive to bring the latest technology and innovations to our clients.

Join Us in Saving Electricity for a Brighter Future!

At TRIPASON, we believe in making a difference. Let's work together to create a sustainable and energy-efficient world. Partner with us today, and let’s power the future, one project at a time.

OUR PRODUCTS

MOTOR/PUMP STARTERS

DOL STARTER

STAR DELTA STARTER

A motor starter is an electrical device used to safely start and stop a motor, offering essential low voltage and overcurrent protection beyond the basic function of a relay.

Key Features:

- **User-Selectable Trip Time:** Customize the trip time to match your specific needs.
- **Auto/Manual/ZVR Reset Functions:** Flexible reset options to suit various applications.
- **True RMS Measurement:** Provides accurate current and voltage readings for reliable motor performance.

Protection & Metering Capabilities:

- **Over/Under Voltage Protection**
- **Over/Under Current Protection**
- **Over/Under Frequency Protection**
- **Single Phase Prevention**
- **Short Circuit Protection**
- **Three Phase Amp Meter**
- **Frequency Meter**
- **Unbalance Detection**
- **Phase Loss Detection**
- **Locked Rotor Detection**
- **Phase Sequence Detection**
- **Neutral Loss Detection**
- **Three Phase Voltage Meter**
- **Single Phase Voltage Meter**

We offer a range of motor starters including DOL, Star Delta, VFD, Sump Pump, Reverse/Forward, and more, tailored to meet diverse application needs.

FIRE PUMP STARTER PANEL

Fire Pump Controllers

Fire pump controllers are essential control panels that house electrical components such as circuit breakers, switches, relays, and other devices dedicated to the operation of fire pumps. These devices perform crucial functions, including:

- **Signal Reception:** Receiving signals from alarm devices, such as pressure-operated switches, sprinkler alarm valves, or remote fire alarm equipment.
- **Motor Activation:** Activating motor control devices to supply electric power to motors driving the fire pumps.
- **Operation Monitoring:** Monitoring the operation and performance of the fire pump to ensure it functions correctly in critical situations.

VARIABLE FREQUENCY DRIVE MOTOR STARTER PANEL

Variable Frequency Drive (VFD)

A Variable Frequency Drive (VFD) is capable of adjusting both the voltage and frequency of the supplying current, primarily used to control the speed of an induction motor. The process involves converting the AC from the supply line into DC using rectifiers. The pure DC is then converted back into AC with adjustable frequency and voltage using pulse width modulation through power transistors such as IGBTs. VFDs provide complete control over the motor speed, ranging from 0 to the rated speed. Additionally, the variable voltage speed adjustment offers better starting current and acceleration.

AUTO CHANGEOVER PANEL

CONTACTOR BASE

ATS BASE

An **Automatic Changeover Panel** performs the function of automatically switching the connected load between mains and genset (or any two power sources) in a specified manner, with mains as the first priority.

•During a healthy mains supply, the load is drawn from mains only.
•When the main supply fails and the standby genset is on, the panel automatically connects the load to the generator.
•When the main supply resumes, the connected load is automatically shifted back to mains.

We offer Automatic Changeover panels with Relay base, PMC base, ATS (Automatic Transfer Switch) base, and Contactor base.

APFC PANEL

Function of APFC Panel:

The function of an Automatic Power Factor Correction (APFC) Panel is to improve the power factor. Most electric loads are reactive, resulting in a poor power factor. Electricity companies encourage consumers to enhance their power factor. To achieve this, consumers need to connect capacitors of optimum rating across inductive loads. The APFC Panel is an automatic device designed to boost the power factor by automatically switching the desired capacitor bank units on and off as needed.

APSC PANEL

We are offering Phase Sequence Correctors to our clients.

Features of the Automatic RYB Phase Sequence Corrector:

- **Correction of RYB Phase Sequence:** Automatically corrects the RYB phase sequence whenever it is changed or reversed.
- **Protection for Three Phase UPS:** Prevents UPS from using battery power during sequence changes or reversals, avoiding potential server failures and empty batteries within half an hour.
- **Protection for 3-Phase Air Conditioners:** Prevents tripping of 3-phase air conditioners during sequence reversals, ensuring uninterrupted operation and comfort in the office.
- **Damage Prevention:** Avoids damages caused by phase sequence changes or reversals.
- **Auto-Reset Function:** Switches off during single phasing or voltage imbalances and automatically resets after restoration.
- **Uninterrupted Operation:** Ensures no breakdowns of lifts, machinery, UPS, 3-phase air conditioners, or any motors or 3-phase systems due to phase sequence changes.

We can supply from 25A to 630A Rating. When there is a problem with the electricity board, phase interchanges can cause three-phase loads such as AC, UPS, and industrial & hospital equipment to malfunction. By installing our equipment, these systems will continue to operate smoothly.

AMF PANEL

AMF Panels (Automatic Mains Failure Panels)

AMF panels, also known as ATS panels (Automatic Transfer Switch panels), are designed to monitor the incoming power supply from the mains and automatically switch to the standby generator source in the event of a power outage. With an AMF panel in place, users no longer need to manually manage the switch to the standby generator during emergencies.

ELECTRICAL PANEL (LT, PCC, MCC ETC.)

An electrical panel is essentially a load control center. It plays a crucial role in managing various electrical actions such as power distribution, power transmission, and power system protection. These panels are the practical installation of electrical wiring diagrams and consist of various components, including trip circuits, closing circuits, busbars, cables, MCCBs, MPCBs, MCBs, NO & NCs, and more. Electrical panels ensure safe power distribution to the load and are typically manufactured from rolled steel, well-shaped into either rectangular or square forms.

Types of Electrical Panels:

1. Power Control Centre (PCC)

•A panel that supplies or receives high tension (HT) power.

2. Low Tension (LT) Panels

•LT Panel is an electrical distribution board that receives power from a generator or transformer and distributes it to various electronic devices and distribution boards.

3. Motor Control Centre (MCC) Panels

•The MCC panel is used as the primary means for controlling various motors needed for a facility's electrical system. This panel contains all motor control and protection devices, such as MCBs, contactors, timers, relays, MCCBs, isolators, busbars, circuit breakers, transformers, limit switches, and more.

DG AUTO SYNCHRONIZATION CONTROL PANEL

DG Synchronization Panels

DG Synchronization panels are meticulously designed to meet critical power system requirements. They ensure uninterrupted or quick restoration of power supply, along with DG and circuitry protection. These panels are especially crucial for infrastructure with significant social or commercial value, including hospitals, malls, multistoried residential societies, hotels, telecommunication sectors, and industries with varied power loads.

DIGITAL AUTOMATIC SERVO VOLTAGE STABILIZER

DIMMER TYPE ***LINEAR TYPE***

A voltage stabilizer is designed to maintain a stable voltage level, ensuring a constant power supply even during voltage fluctuations. This protection is crucial for safeguarding machines, equipment, and appliances.

Benefits of Servo Voltage Stabilizers:

- **Reduction in Electrical Equipment Breakdown:** Expect a reduction of 60-80% in equipment breakdowns, depending on input voltage variation and the plant's working hours.
- **Energy Savings:** Achieve 5-10% energy savings, contingent on input voltage variation and plant operational hours.
- **Power Factor Improvement:** Anticipate a 10-15% improvement in power factor after installing the equipment.

UPS SYSTEM

Avoid Power Disruptions with a UPS (Uninterruptible Power Supply) System

Protect against power interruptions. Provide adequate power during short-term interruptions and “ride-through” time to convert to backup supply. Refine the quality of the power as it reaches your building, office, and equipment.

A UPS SYSTEM SERVES MULTIPLE PURPOSES:

- **Protect against power interruptions**
- **Provide adequate power during short-term interruptions and “ride-through” time to convert to backup supply**
- **Refine the quality of the power as it reaches your building, office, and equipment**
- **Include a backup source for long-term outages, such as generators**

POWER/DISTRIBUTION TRANSFORMER

Uses of a Distribution Transformer

A distribution transformer is utilized for several critical functions:

- **Voltage Conversion:** This transformer converts high voltage electricity to low voltage electricity, making it suitable for homes and businesses.
- **Isolation:** It provides isolation between two windings—primary and secondary—by stepping down the voltage.
- **Power Distribution:** The transformer distributes power to remote areas, with electricity generated from power plants.
- **Industrial and Domestic Use:** It supplies electrical energy to industries at voltages under 33KV, and provides 440 volts to 220 volts for domestic purposes.

11/33 KV HT VCB PANEL

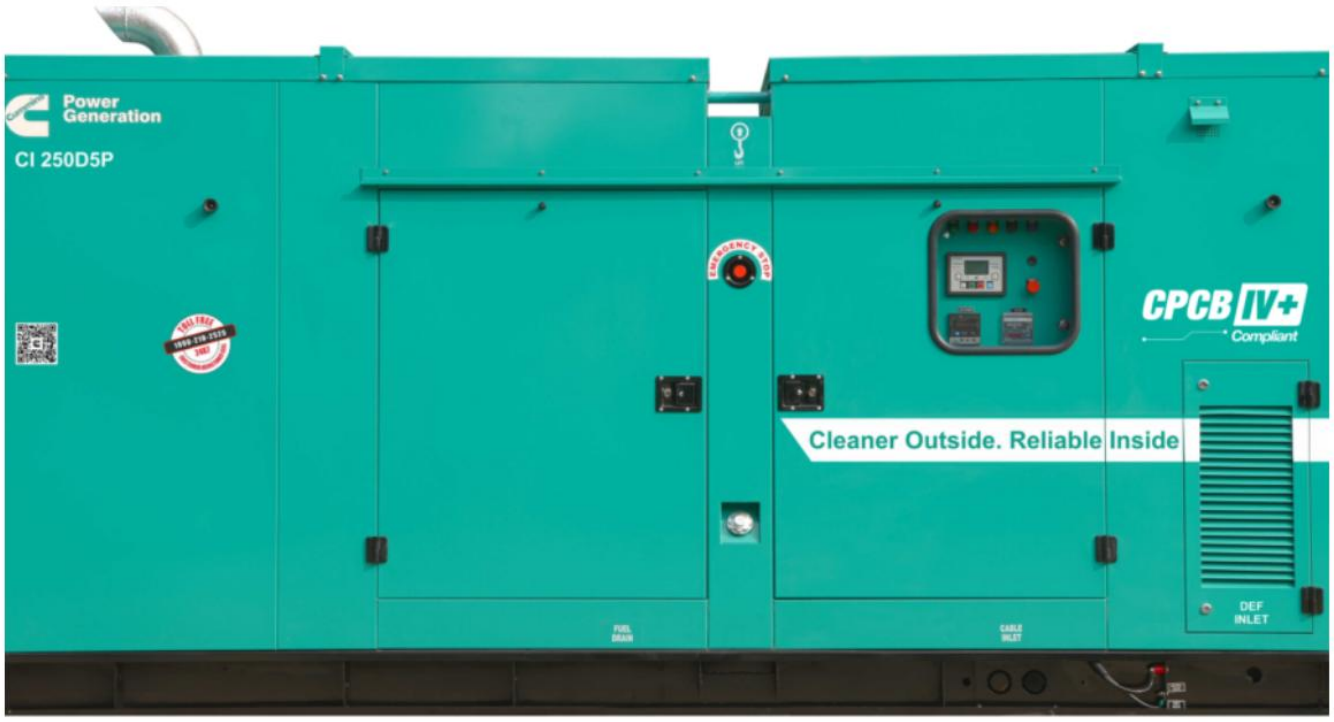
HT VCB Control Panels

11/33KV Vacuum Circuit Breaker (VCB) Indoor/Outdoor Type Panels are used for the protection of transformers.

Advantages of VCB:

- **Long Life:** VCBs have an extended lifespan.
- **Enhanced Safety:** Unlike Oil Circuit Breakers (OCB) or air blast Circuit Breakers (ABCB), VCBs avoid the risk of explosion, ensuring the safety of operating personnel.
- **No Fire Hazard:** VCBs eliminate fire hazards.
- **Fast Operation:** VCBs operate quickly, making them ideal for fault clearing and repeated operation.
- **Low Maintenance:** VCBs require minimal maintenance.
- **Environmentally Friendly:** VCBs do not exhaust gas into the atmosphere and operate noiselessly.

PNG/DIESEL GEN. SET



Diesel gensets are a preferred back-up power solution for industrial users worldwide due to their durability, reliability, and performance. Despite the emergence of alternate back-up solutions, industrial diesel generators remain highly sought after for their versatility and efficiency.

Applications and Uses of Industrial Diesel Generators:

- **Mining**
- **Healthcare**
- **Commercial**
- **Oil & Gas**
- **Construction**
- **Manufacturing**
- **Telecommunications and Data Centers**
- **Utilities**
- **Education**
- **Military**

CSS (COMPACT SUBSTATION)

Compact substations are used for energy transformation in secondary distribution networks from MV to LV or LV to MV.

Compact Substation (CSS):

A CSS is a type-tested and arc-tested assembly comprising an enclosure containing medium voltage (MV) switchgear, distribution transformers, low voltage (LV) switchboards, connections, and auxiliary equipment. These components work together to supply low voltage energy from medium voltage systems.

Key Features:

- **Energy Transformation:** Converts energy from medium voltage to low voltage or vice versa.
- **Safety and Accessibility:** Typically installed in locations accessible to the public, ensuring protection for all people according to specified service conditions.

ON GRID SOLAR POWER PLANT

Advantages of Solar Energy:

1.Renewable Energy Source: Among all the benefits of solar panels, the most important thing is that solar energy is a truly renewable energy source.

2.Reduces Electricity Bills: Since you will be meeting some of your energy needs with the electricity your solar system has generated, your energy bills will drop.

3.Diverse Applications: Solar energy can be used for diverse purposes. You can generate electricity (photovoltaics) or heat (solar thermal).

4.Low Maintenance Costs: Solar energy systems generally don’t require a lot of maintenance.

Our services

AMC Service for:
- LT Panel
- HT Panel
- Transformer
- DG Set
- Servo
- Solar
- Etc.

Repair & Maintenance Service for:
- LT Panel
- HT Panel
- Transformer
- Servo
- Etc.

Installation Service for:
- LT Panel
- HT Panel
- Transformer
- DG Set
- Servo
- Etc.

Our Clients

Our Esteemed Clients:

- Educational Institutions
- Hospitality Industry
- Realty Sector
- Automobile Industry
- IT Industry
- L&T Group
- Omaxe Group
- DPS Group

Our Clients

- SHARDA GROUP
- SUPERTECH GROUP
- INJECTION MOULDING INDUSTRIES
- MANUFACTURING INDUSTRIES
- JAKSON GROUP
- INDIAN RAILWAYS
- U.P. ELECTRICITY BOARD
- U.P. JAL NIGAM
- CAMBRIDGE GROUP

Thanks

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