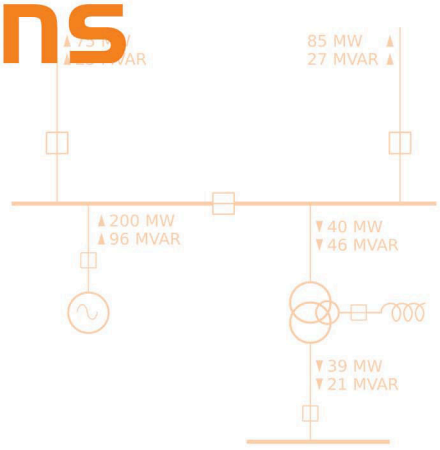
TEEKAY POWER TECHNIC

Control panel Solutions



044-24964909

About us

The Company was incorporated in 1999 as a Proprietary Concern with the Primary Objective of focusing on Manufacturing LT Panels and Energy Conservation Products viz., Automatic Power Factor Correction System, Automatic Harmonic Filter System.

The Company was promoted by Mr.M.C.S.Thangaraj,a Qualified Engineer having more than 20 years of high level industrial experience in Reputed Electrical Panel Manufacturing Companies.

With the well-trained strong team and financial strength, the company has established a growth rate of more than 25% every year.

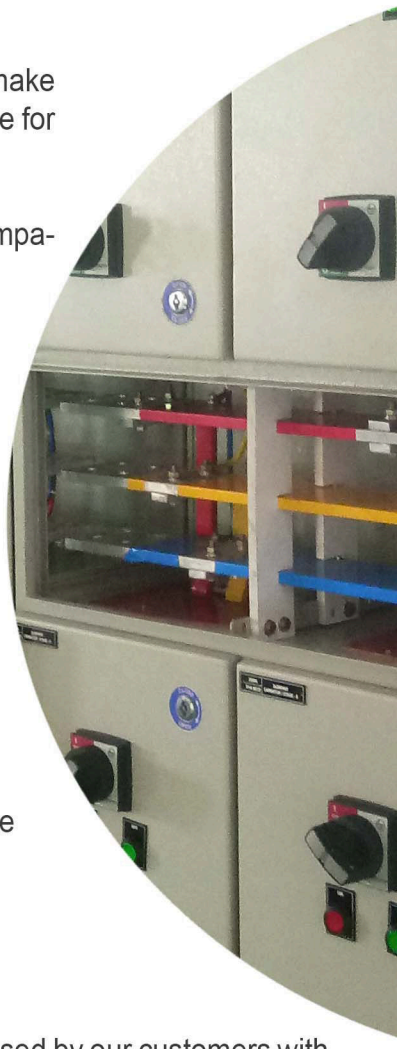
Who we are ?

The Company with Qualified Experts having experience in Electrical and Mechanical field addresses customers' requirements with cost effective & High Quality, custom built products of state-of-the-art technologies.

What we do ?

We at our Company, "Engineer, Manufacture, Assemble, Test & Supply". TeeKay make Low Voltage, Medium Voltage Control Panels. Our products are tested at CPRI Bangalore for short circuit, temperature rise & IP 55.

In just a short span of ten years, TEEKAY has recorded a reputation as a leading Company Manufacturing Quality LT Control Panels and Systems.



Integrity

We are governed by the **highest ethical and compliance standards and promote accountability**

Responsibility

We are responsible for all our actions towards growth of **our organization and ensure safe working environment for our employees.**

Commitment

We are committed to our Customers and deliver as promised. To achieve that we create an enviro nment that is effective with in our organization

Quality

In order to meet the constantly growing demands posed by our customers with regard to quality, Teekay Power Technic has imposed high quality standards, which are the basis for our company activities. In order to attain these objectives, **we involve our employees for a continuous improvement process**, so as to optimize quality, service and safety.

Our Products

- MAIN MV PANEL
- LT BUSDUCT & RISING MAIN
- DG SYNCHRONIZATION AND AMF PANEL
- APFC PANEL
- MCC PANEL & VFD PANEL
- PLC PANEL
- DISTRIBUTION BOARD
- SUB SWITCH BOARD

Main MV Panel

- Designed verified and factory assembled in according to IEC 61439
- Modular / Semi-modular / Welded construction
- Fixed / withdrawal module available
- Operational Current / Voltage–UP to 4000A / 415V AC,
- Short Circuit rating- Up to 50KA / 65KA
- Constructed using powder coated sheet steel making it a highly reliable
- Segregation up to form 4A / 4B in accordance with IEC 61439
- High degree of protection up to IP55
- Redundant and efficient ventilation system
- Suitable for top / bottom cable entry
- Arrangement for receiving / distributing power through Power Cable / Bus Duct
- Customized to meet any requirement
- Available in floor mounted / free standing / wall mounting type
- Multitier compartmentalized Circuit Breaker
- Load Distribution through ACBs, MCCBs and SFU.
- High degree of flexibility available with provision of mounting ACB and Automatic
- Transfer Switch for the incoming supply.
- Can be supplied with double bus bar system with feeders tapped from either bus or both

LT BUSDUCT & RISING MAIN

- Applicable standards : 8623 – Part – II – 1993
- Supply System : 415 Volts
- System earthing : Solidly earthed
- Service : Indoor/outdoor
- Design ambient temp. : 45 Deg C
- Rated voltage & frequency : 415V, 50 Hz, +/-5%
- Current rating Continuous rating at specified ambient temp.
- (rated current) : upto 4000A
- Busbar material : Aluminium / Copper
- Earth bus material & cross section : Aluminium/ copper
- Busbar jointing Surface treatment Bolts & washers Bimetallic joints :
- Tinned Cadmium plated will be provided based on requirement
- Type of enclosure: IP 54 for indoor,IP55 with bolted canopy for outdoor
- Max. rise of temp. under full load over specified ambient temp. Busbars Enclosure At joints : 40 Deg C over 45 Deg C
- Type of end terminations Transformer end/ Switchgear end : : Copper flexible /Aluminium Flexible
- Provision of space heater Rated voltage : : will be provided -230V AC with MCB control if required.
- Wall frame assembly : Will be provided based on requirement
- Bus bar arrangement : As per IS 5578

DG SYN AND AMF PANEL

A. It includes:

- Designed verified and factory assembled in according to IEC 61439
- Modular / Semi-modular / Welded construction
- DG synchronization with load sharing.
- Auto Mains Failure Panel
- Auto DG ON/ OFF
- Feed back control in DG
- DG automation
- Parallel DG operation
- DG PLC system

- DG Load sharing
- DG load management
- DG efficiency improvement
- Fuel saving in DG

B. The PLC used is from Schneider/Delta.

C. DG Load Management

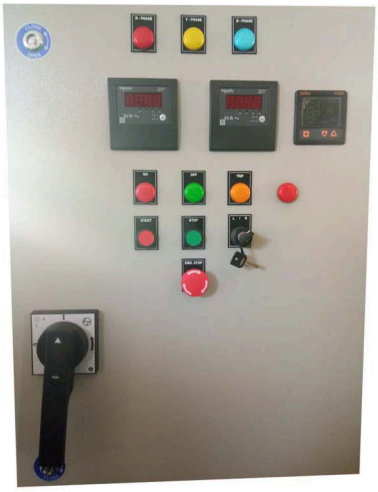
- For DG Load Management- Through our highly experienced engineers and other associate technical staff we provide optimized DG load management system to best Suit customer application.

APFC PANEL

- The power capacitor are self-healing; metallised Polypropelene (MPP) Type and completely resin moulded in hermeticatly sealed containers, naturally cooled, indoor type. PFC back are contactor based.
- Capacitors are designed, manufactured constructed and tested in accordance with relevant code. The power losses does not exceed 0.2 Watt / KVAR (or 0.4 watt / KVAR taking the discharge resistance into account).
- Every capacitor equipment are provided with a directly discharge device providing a discharge path without having a disconnecting switch, fuse cut-out, or series capacitor interposed.
- The discharge device reduces the residual voltage from the crest value of 660 volts to 50 volts or less within one minute after the capacitor disconnected from the source of supply.
- Facilities are provided for short-circuiting the capacitor terminals together and to earth before handling.
- When capacitors are switched off and on at very short intervals, arrangements aremade so that, at the time of reapplication of the voltage, the voltage at the terminals of the capacitor are not more than 10% of the rated r.m.s. Voltage.
- Each unit of capacitance are a 3 phase balanced load and controlled by a adequately rated triple pole contactor.
- Each bank of capacitor units are provided with an incoming bus bar chamber rated for the total load of the maximum number of capacitor units. Units are interconnected by an enclosed all insulated
- Aluminium/ bus bar system.
- Each unit of capacitance in a bank are provided with a red pilot light to indicate when the capacitor is operational.
- Acceptable, harmonic current handling capacity (for p=7% de-tuned reactor):

MCC PANEL & VFD PANEL

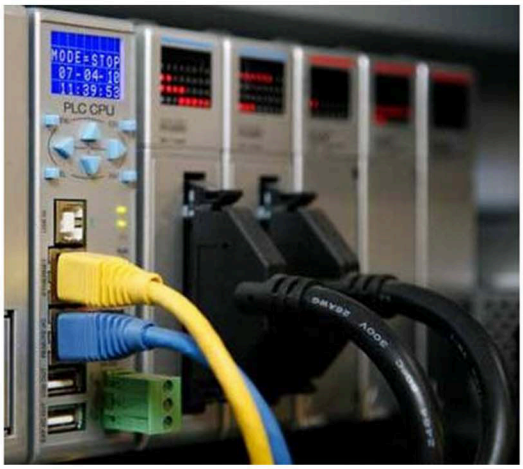
- Designed verified and factory assembled in according to IEC 61439
- Modular / Semi-modular / Welded construction
- Fixed / withdrawal module available
- Operational Voltage–415V AC
- Short Circuit rating- Up to 35KA / 50KA / 65KA
- Constructed using powder coated sheet steel making it a highly reliable
- Segregation up to form 2B/ 3B /4B in accordance with IEC 61439
- High degree of protection up to IP55
- Multitier Compartmentalized Circuit Breaker
- Load Distribution through ACBs and MCCBs
- Used DOL Starters/Star Delta Starters



- Used VFDs up to 400Kw heavy duty
- Local /Remote ,auto/manual wiring with BMS Status.
- Arrangement for receiving / distributing power through Power Cable / Bus Duct.
- High degree of flexibility available with provision of mounting ACB and AutomaticTransfer Switch for the incoming supply.
- Can be supplied with double bus bar system with feeders tapped from either bus or both.

PLC PANEL

- Designed verified and factory assembled in according to IEC 61439 Modular / Semi-modular / Welded construction
- PLCs are evolving and continue to be the best option for a variety of industria automation applications. Greater programming flexibility and ease, scalability, more memory, smaller sizes, very high-speed (Gigabit) Ethernet, and built-in wireless are among evolving programmable logic controller features
- Local Display: LED or liquid-crystal digital type, mounted in door of enclosure



Indicating the following:

a. Target and actual power factors accurate to plus or minus 1 percent of reading.

b. Steps energized.

c. Step reconnection delay.

d. Real and reactive currents.

e. Voltage total harmonic distortion.

f. Alarm codes.

g. System Alarms: Alarm relay and local display indication of the following conditions:

h. Low power factor.

i. Leading power factor.

j. Frequency not detected.

k. Over current.

l. Overvoltage.

m. Over temperature.

n. Excessive voltage total harmonic distortion.

o. Capacitor overload.

p. Loss of capacitance.

q. Communication module –Optional

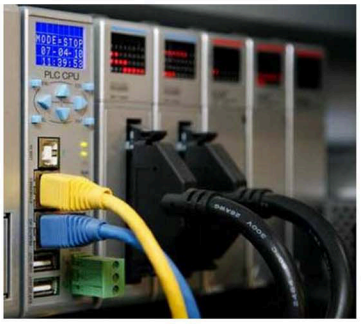
DISTRIBUTION BOARD

- Designed verified and factory assembled in according to IEC 61439
- Modular / Semi-modular / Welded construction
- Operational Voltage–415V AC
- Short Circuit rating- Up to 25KA
- Constructed using powder coated sheet steel making it a highly reliable
- Segregation up to form 2B/ 3B in accordance with IEC 61439
- High degree of protection up to IP55
- SPN DB for distribution of Single Phase Neutral supply to respective load MCBs

- Standard TPN DBs for distribution of Three Phase and Neutral supply
- Phase Segregated DBs to provide total safety for installer and maintenance personnel, by compartmentalizing each Phase and separating Incomer, Sub- Incomer and Outgoing
- Offers better continuity of supply in case of faults during maintenance at DB level.
- DBs for higher incoming current distribution up to 250A

SUB SWITCH BOARD

- Designed verified and factory assembled in according to IEC 61439
- Modular / Semi-modular / Welded construction
- Fixed / withdrawal module available
- Operational Voltage–415V AC,
- Short Circuit rating- Up to 35KA / 50KA / 65KA
- Constructed using powder coated sheet steel making it a highly reliable
- Segregation up to form 2B/ 3B /4B in accordance with IEC 61439
- High degree of protection up to IP55
- Redundant and efficient ventilation system
- Suitable for top / bottom cable entry
- Customized to meet any requirement
- Available in floor mounted / free standing / wall mounting type
- Multitier compartmentalized Circuit Breaker
- Load Distribution through ACBs, MCCBs and SFU.
- Can be supplied with double bus bar system with feeders tapped from either bus or both



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TEEKAY POWER TECHNIC

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Our Clients

CPWD

IGCAR

KNPP

HOUSE OF HIRANANDANI

SRM Tech

Reliance Industries Limited

Hindustan University

CEEBROS

Mahindra WORLD CITY

ALSTOM

POLARIS

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