COMPREHENSIVE ELECTRICAL SOLUTIONS

OMEGA POWER CONTROLS



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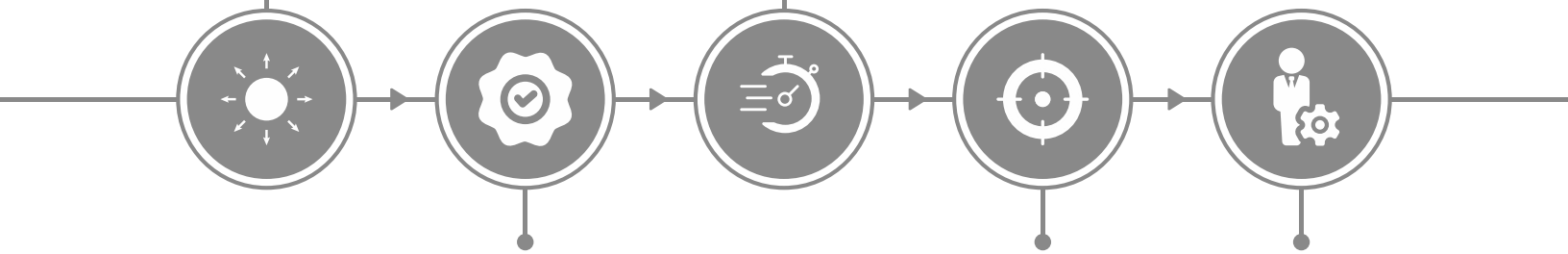
LT Panels | HT Panels | Drives | Substation | Electrical Turnkey Projects | Bus Ducts | Switchgear

ABOUT US

Founded in the year 1998, Omega Power Controls is the Culmination of forethought of the visionary Mr. P. Venkata Ramana. His Rich experience of more than three decades has made Omega one of the top players in the Industry for custom built switchboards and comprehensive electrical solutions.

Omega has a State-of-the-Art Manufacturing Facility spread more than 13,000 Sq. Ft.

We ensure excellent quality, faster deliveries and economies of scale to our customers by continuous enhancement.



A Diligent team of professionals which include-technocrats, engineers and technical associates is committed to deliver quality products in shortest lead time.

R&D is a top priority in all areas of Electrical & Mechanical which keeps the focus on being a solution provider.

Service (both pre-sales and post-sales) is a guarantee that enables Customer loyalty.

OUR VISION

Be a professionally managed organization, committed to world class customer experience& bench-marking our products and services against global quality standards.

OUR MISSION

To provide integrated and innovative solutions to our clients by utilizing the latest technology, best practices and recognized industry standards, and to add value to our client's operations and build long term relationships that are mutually beneficial.

OUR PRODUCTS OFFERING

- LT PANELS
- HT PANELS
- DRIVES
- SUBSTATION
- ELECTRICAL TURNKEY PROJECTS
- BUSDUCTS
- SWITCHGEAR

SALIENT FEATURES

- Products Type Tested at CPRI/ERDA as per IEC-61439-1&2
- Fabrication on CNC Machines
- Fully bolted, Modular and Standardized Designs and Construction
- 8 tank Pre-Treatment Process & Powder Coating Plant
- 3-in-1 CNC Busbar Machine for Cutting, Bending and Punching
- Compatible with all makes of Switch Gear
- ASTA UK Certified, Totally Type Tested Assembly (TTA) Panels
- Pneumatic Assembly Lines

OUR STRENGTHS

- Driven by Technocrats
- Trained Man Power
- Best Commissioning Support and After Sales Service
- State of the Art In-house Manufacturing Facility
- Operations on ERP
- Strict Quality Control from Raw Material Procurement Stage to Finished Product Stage
- Design on AutoCAD/E-Plan
- Floor Space
- Stringent Stage by State Quality Checks

OUR ASSOCIATIONS

Authorised
Channel Partner for LV & MV Switchgear

Authorised
Value Provider for VFD

Authorised
Channel Partner for CAPACITOR & TRANSFORMER



AWARDS AND RECOGNITION

The Federation of Indian Exports (FIEO) on behalf of Ministry of Industry and Commerce, India, recognized our efforts in Exports, has awarded our firm with Export Excellence Award Southern Region in the Top Multi Product Category for the year 2013-2014.

INFRASTRUCTURE

FABRICATION SHOP



- Fabrication on CNC Machines for Punching, Bending and Shearing Operations
- Fully Bolted and Modular Construction
- Weld Less Design for Modular Enclosures
- MiG Welding for Welded Enclosures & Special Requirements
- Standardized Feeder Dimensions and Designs
- 9 Stage Quality Inspection Check

PRE - TREATMENT AND POWDER COATING



- 8 tank Pre-Treatment Process & Conveyorized Powder Coating Plant
- Anti-Corrosion Treatment
- Powder Coated with Epoxy Polyester (EP) for Indoor Applications, Pure Polyester (PP) for Outdoor Applications
- Baked in Oven at 200°C for pre-set time after powder coating
- In house Testing facilities for Chemicals & Coating Thickness
- Additional layer of Zinc Coating primer along with PP Powder Coating for Sea-Worthy Anti Corrosive Paint finish
- Powder Coated with special Electro Static Guns from Switzerland
- Pre-Treatment Process: Degreasing -> Water Rinse -> De-Rusting -> Water Rinse -> Activation ->Phosphating -> Water Rinse -> Passivation -> Air Drying

BUSBAR SHOP



- High-Quality Electrolytic Grade (EC/E91E) Aluminium Busbars sourced from Hindalco / Jindal
- Electrolytic Grade Copper Busbars (Bare/Tinned)
- Busbars manufactured on 3-in-1 CNC Busbar Cutting, Bending & Punching Machine
- Special Busbar Jointing ensuring minimum Power Loss and Milli voltage drop
- Insulation - Epoxy, PVC Sleeving, Bare, Tinning
- Non-Hygroscopic SMC / DMC / Polyamide Busbar Supports for Fault Current Withstand
- 24 Stage Quality Inspection Check

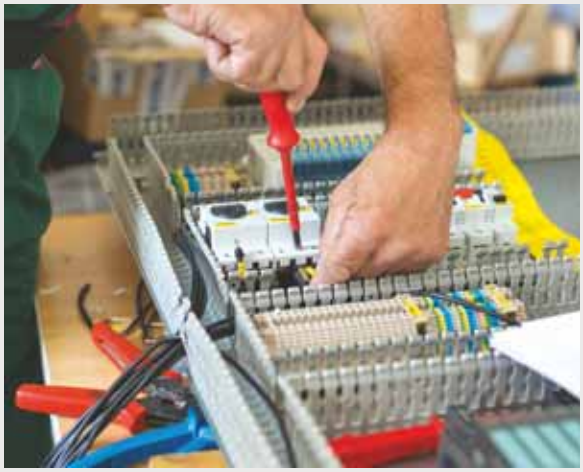
INFRASTRUCTURE

WIRING SHOP



- Wiring Tables with Pneumatic Tools
- Removable Mounting Plates for ease of wiring and maintenance.
- Computerized Ferruling and Labeling Machines
- Use of Specialized Crimping Tools
- PVC Duct and DIN Rail Cutting Machines
- Minimum FR grade, ISI, Copper Cable
- High Quality Insulated/Non-Insulated Copper Lugs
- Highly Skilled Technicians
- Use of PVC Cable Ducts, Spiral, Ties & Conduits for proper dressing
- 30 Stage Quality Inspection Check

ASSEMBLY SHOP



- Pneumatic Assembly Lines
- Sufficient Floor Space
- Mounting of Switchgear followed as per manufacturer's guidelines
- Optimized Mounting of Switchgears
- Use of Component Layouts for ease of assembly
- All Live Parts shrouded with Polycarbonate sheets
- Long Lasting specially designed EPDM, Steel Reinforced Gasket as per IP 54 protection standard
- 60 Stage Final Quality Inspection Check

TESTING / QC



- Inward Raw Material Check
- AL/CU Conductivity
- Paint Coat Thickness meter
- Structure Test, Bend Test & Scratch Hardness Test for Pain Durability
- Relay Testing
- Dielectric Test
- Insulation Resistance Test
- Earth Leakage Test
- Continuity Test
- Clamp Meter

PCC PANEL - POWER CONTROL CENTRE



System	3 Phase, 3 or 4 Wire, 50 HZ
Applicable Standard	As Per IEC-61439 Part-1&2
Rated Current	Up to 6300 A
Rated Insulation Voltage	Up to 1000 V
Rated Impulse Withstand Voltage	8 KV
Rated Short Time Withstand Current	Up to 100 KA For 1 SEC
Mechanical Impact	IK 10
Degree of Protection	IP-42, IP-52, IP-54 & IP-65
Form of Separation	Up to Form-4B, Type 7
Designed Ambient	40˚ C
Type Tested For	Short Time Current , Temperature Rise , Degree of Protection
Bus Bar System	Interleaved Above 1600 A
Bus Bar	Aluminium or Copper
Feeder Configuration	Fully Draw Out / Semi Draw Out or Fixed Type
Application	Operation, Control & Protection of Distribution Network with Or Without SCADA / BMS Connectivity, With Auto Mains Failure (AMF) Option

MCC PANEL - MOTOR CONTROL CENTRE



System	3 Phase, 3 Or 4 Wire, 50 HZ
Applicable Standard	As Per IEC-61439 Part-1&2
Rated Current	Up to 6300 A
Rated Insulation Voltage	Up to 1000 V
Rated Impulse Withstand Voltage	8 KV
Rated Short Time Withstand Current	Up to 100 KA For 1 SEC
Mechanical Impact	IK 10
Degree of Protection	IP-42, IP-52, IP-54 & IP-65
Form of Separation	Up to Form-4B, Type 7
Designed Ambient	40˚ C
Type Tested For	Short Time Current , Temperature Rise ,Degree of Protection
Bus Bar System	Interleaved Above 1600 A
Bus Bar	Aluminium or Copper
Feeder Configuration	Fully Draw Out / Semi Draw Out or Fixed Type
Application	Operation, Control & Protection of Motors with Local/Remote/PLC/DCS Operation

DG SYNCHRONIZING PANEL



System	3 Phase, 3 Or 4 Wire, 50 HZ
Applicable Standard	As Per IEC-61439 Part-1&2
Rated Current	Up to 6300 A
Rated Insulation Voltage	Up to 1000 V
Rated Impulse Withstand Voltage	8 KV
Rated Short Time Withstand Current	Up to 100 KA For 1 SEC
Mechanical Impact	IK 10
Degree of Protection	IP-42, IP-52, IP-54 & IP-65
Form of Separation	Up to Form-4B, Type 7
Designed Ambient	40˚ C
Type Tested For	Short Time Current , Temperature Rise , Degree of Protection
Bus Bar System	Interleaved Above 1600 A
Bus Bar	Aluminium or Copper
Feeder Configuration	Fully Draw Out / Semi Draw Out or Fixed Type
Application	Control, Synchronizing, Load Sharing / Load Management of DG Sets (SYNC Relay Based / PLC Based / Manual Mode)

APFC PANEL



System	3 Phase, 3 Or 4 Wire, 50 HZ
Applicable Standard	As Per IEC-61439 Part-1&2/IEC-61921
Rated Insulation Voltage	Up to 1000 V
Degree of Protection	IP-42, IP-52 & IP-54
Form of Separation	Up to Form-3B
Power (Qr)(KVAR)	5.0 - 33 KVAR
Rated Voltage (Capacitor)	230 - 525 V
Switching	Conventional / Thyristor
Cooling	Natural / Forced
Power Factor Controller	Up To 20 stages (RS-485 on Request)
De-Tuning	Conventional or 5.67%, 7%, 14%
Designed Ambient	40˚ C
Bus Bar System	Interleaved Above 1600 A
Bus Bar	Aluminium or Copper
Feeder Configuration	Fixed Type
Application	Automatic Power Factor Correction Equipment, Tuned / Detuned Capacitor banks, Dynamic PFC

PDB PANEL



System	3 Phase, 3 Or 4 Wire, 50 HZ
Applicable Standard	As Per IEC-61439 Part-1&2
Rated Current	Up to 6300 A
Rated Insulation Voltage	Up to 1000 V
Rated Impulse Withstand Voltage	8 KV
Rated Short Time Withstand Current	Up to 100 KA For 1 SEC
Mechanical Impact	IK 10
Degree of Protection	IP-42, IP-52, IP-54 & IP-65
Form of Separation	Up to Form-4B, Type 7
Designed Ambient	40˚ C
Type Tested For	Short Time Current , Temperature Rise , Degree of Protection
Bus Bar System	Interleaved Above 1600 A
Bus Bar	Aluminium or Copper
Feeder Configuration	Fully Draw Out / Semi Draw Out or Fixed Type
Application	Operation, Control & Protection of Distribution Network with Or Without SCADA / BMS Connectivity

VFD PANEL



System	3 Phase, 3 Or 4 Wire, 50 HZ
Applicable Standard	As Per IEC-61439 Part-1&2
Rated Current	Up to 1000 A
Rated Short Time Withstand Current	Up to 50 KA For 1 SEC
Rated Insulation Voltage	Up to 1000 V
Mechanical Impact	IK 10
Degree of Protection	IP-42, IP-52, IP-54 & IP-65
Form of Separation	Up to Form-4B, Type 7
Designed Ambient	40° C
Type Tested For	Degree of Protection
Bus Bar	Aluminium or Copper
Power Cable	Copper
Cooling	Natural / Forced
Application	Operation, Control & Protection of Motors with Local/Remote/PLC/DCS Operation

11kV/33kV - MEDIUM VOLTAGE PANELS (Outdoor / Indoor) HT PANELS



System	3 Phase, 3 Wire, 50 HZ
Applicable Standard	As Per IEC-62271
Circuit Breaker	VCB/SF6
Rated Voltage	11kV/33 kV
Rated Short Time Power Frequency Voltage	Up to 70 kV for 33kV
Rated Lightning Impulse With Stand Voltage	Up to 170 kV for 33kV
Rated Current	Up To 2500 A for 11kV, 1250A for 33kV
Short Time Current	26.3kA / 31.5kA for 3 Sec
Bus Bars	Aluminum or Copper
Degree of Protection	Up to IP 55
Type Tested For	Short Time Current
Application	Operation, Control & Protection of Distribution Network with or Without SCADA / BMS Connectivity

SANDWICH BUSDUCT



Ampere Rating	630A - 6000A
Ip Rating	IP 40 – IP 67
System	3PH+N+PE/3PH+N
Operation Voltage	1000 V
Insulation Voltage	1000 V
Frequency	50/60 HZ
Standard Length	10 Feet
Max/Min Length	10 Feet/16 Inch
Finish	Ansi49
Tap-Off Intervals	610mm/1219mm
Neutral Capacity	100% As Phase Bar
Earth Bar	50% Capacity, Integral/Internal
Tap-Off Unit Ampere Rating	16A - 1600 A
Material	Aluminium / Copper

AIR INSULATED BUSDUCT



Technical Specifications	IEC-439 Part 2 And IS 8623 Part 2
System	415 V, 3 Phase, 4 Wire, 50 Hz or 3 Phase 3 Wire
Rated Insulation Voltage	Up to 1000V
Rated Current	Up to 6300A
Type	Totally Enclosed. Air Insulated. Non-Segregated
Ingress Protection	IP 42, IP 52, IP 54, IP 65
Bus Bars Material	Electrolytic Grade Aluminum or Copper Aluminum Conductivity > 58%, Copper > 98%
Enclosure	CRCA Sheet / Aluminum Housing (Optional)
Enclosure Paint Finish	Epoxy Powder Coating. RAL-7035 (Other Shades as Required)
Bus Bar Insulation	Black PVC Insulation with Color Coding for Phase Identification Black Matt Paint for Bus Bar Rating 2500A and Above
Earthing	Separate Earth Bus Provided on Enclosure
Phase Cross Over	Optional If Required

LT SWITCH GEAR

- Air Circuit Breakers
- Moulded Case Circuit Breakers
- Automatic Transfer Switches
- Miniature Circuit Breakers
- Contactors
- Motor Protection Circuit Breakers
- Softstarters
- Changeover Switches
- Distribution Boards
- Thermal Overload Relays
- Pilot Devices
- Switch Disconnectors



VARIABLE FREQUENCY DRIVES

ABB
Low Voltage Drives

Low Voltage AC Drives

- ACS 380 (0.25 kw to 22 kw)
- ACS 560 (0.75 kw to 160 kw)
- ACS 580 (0.75 kw to 500 kw)
- ACS 880 (0.55 kw to 3200 kw)



HT SWITCH GEAR

- 11 kv / 33 kv Vacuum Circuit Breakers
- 11 kv / 33 kv Sf6 Circuit Breakers
- 11 kv / 33 kv Ring Main Units
- Unitized Package Sub-Stations
- 11 kv / 33 kv Load Break Switches



ELECTRICAL TURNKEY PROJECTS

We provide Complete Electrical Solutions and also undertake Design, Engineering, Supply, Installation, Testing & Commissioning of all Electrical Equipment on Turn-key Basis as listed below.



- 33kV and 11kV Outdoor Substations
- 33kV and 11 KV HT VCB/SF6/RMU Panels
- Power and Distribution Transformers
- Busducts
- Electrical Panels
- Power and Control Cables
- Cable Trays and accessories
- Earthing
- Lighting
- DG Sets
- External Electrification Works
- Liasoning with Govt. bodies for Drawing Approval and Inspection
- All other Equipment related to Electrification of Plant and Machinery



A Grade Electrical Certificate

CERTIFICATIONS

- TTA (Totally Type Tested Assembly) Panel, 4000A, 65kA for 1 Sec, with ABB Switchgear as per IEC-61439-1&2 certified by ASTA UK
- Verification of Short Circuit Withstand Strength, 415V, 6300A, 70kA for 1 Sec, PMCC Panel as per IS-8623/IEC 61439-1&2 by CPRI
- Verification of Temperature Rise Limits, 415V, 4000A, PMCC Panel as per IS-8623/IEC pub 439-1&2 by CPRI
- Degree of Protection, IP-65, 415V, 250A, LT Panel as per IS-8623/IEC pub 439-1 by CPRI
- ABB LV Dealership Certificate
- ABB VFD Value Provider Certificate














CERTIFICATE

OMEGA POWER CONTROLS

ISO 9001:2015

QUALITY POLICY

- We are Committed to Design, Manufacture, Supply and Install Electrical Panels to the utmost satisfaction of our customers
- We strive to continuously improving all our systems
- We believe this is possible only by the involvement and participation of the entire team

INDUSTRIES SERVED


TOBACCO


SUGAR


F & B


PAPER


POWER PLANT


AQUA


BUILDING & INFRASTRUCTURE


TEXTILE


WARE HOUSE


IRON & STEEL


PHARMA


WTP


AUTOMOTIVE


STEEL


OIL & GAS



INTERNATIONAL PRESENCE

- ZIMBABWE
- TANZANIA
- KENYA
- GABON
- SIERRA LEONE
- SUDAN
- NIGERIA
- MALAWI
- GHANA
- SOUTH AFRICA
- UGANDA
- BANGLADESH

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OUR BRANCHES

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