



PSG ELECTRICALS PVT LTD

(CIN - U40300DL2014PTC273494)

AN ISO 9001:2015 & 14001:2015 CERTIFIED COMPANY

CATALOGUE

The Growing Name in The Field of Manufacturing of Low Voltage and Medium Voltage Electrical Panels



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PSG Electricals Pvt. Ltd. is a team of skilled/experienced engineers and the fastest growing name in manufacturing of all types of LV & MV Electricals Panels. We have all Modernized Machine (In House Production) like Fiber Laser Cutting machine , CNC Hydraulic Press Break, Hydraulic Shearing Machines Nine Tank Treatment systems, Latest Powder Coating facility and complete testing & inspection facilities.

We are maintaining the highest standard of quality and committed to our esteemed customers to reduce the time and costs on their required products. We facilitate to the Customers end to end and turn key solution to meet the highly technical products and also commitment to after sale service via complete professional and technical staff. These are the key factors to keep our esteemed customer satisfied. We have highly qualified, trained staff and motivated work force with several years of experience In L.T/H.T Panel design, Fabrication, Integration & Capable of meet with all type of challenging requirements and delivery schedules.

QUALITY ASSURANCE SYSTEM

PSG has a unique quality management system as per ISO 9001 : 2015 , which has committed by every team member. It has got a unique three-tier quality as follows:

ALL RAW MATERIAL INCLUDING SWITCHGEAR IS SUBJECTED TO RIGOROUS TESTING.

STAGE INSPECTION IS CARRIED OUT IN FOUR STAGES SO THAT EVEN SMALL PROBLEMS ARE ELIMINATED AND NOT CARRIED OUT FURTHER

FINAL TESTING IS CARRIED OUT THOROUGHLY WITH ALL CALIBRATED INSTRUMENTS AND AS PER IS: 8623.

TYPE TEST

Panels are Type Tested from **CPRI, Bhopal** and **National Test House** as per IS : 8623.

SHORT
CIRCUIT
TEST
(4000A 70 KA
FOR 1 SEC)

TEMPERATURE
RISE TEST

INGRESS
PROTECTION
(IP-55)

IN-HOUSE TESTING

INSULATION RESISTANCE
TEST 1000V MEGGER

SECONDARY CURRENT
INJECTION (PORTABLE)

C.T. POLARITY TEST

SWITCHGEAR
OPERATIONAL TEST

FUNCTIONAL TEST

HIGH VOLTAGE TEST UPTO
5 KV

IN-HOUSE MACHINERIES

FIBER LASER
CUTTING
(1.5KW)

CNC BREAK
PRESS

HYDRAULIC
BREAK
PRESS

OTHER ALL
REQUIRED
MACHINES

POWER
PRESSES

HYDRAULIC
SHEARING

SALIENT FEATURES

PANEL ENCLOSURES ARE FABRICATED IN MODULAR CONSTRUCTION.

SLOTTED SUPPORTS ARE PROVIDED IN CABLE ALLEYS FOR BINDING OF CABLES.

CONCEALED HINGES WITH WELDED BUSH ARE USED IN EACH DOOR AND RUST FREE DOOR LOCK.

ALL DOOR CUT-OUTS ARE MADE AT FABRICATION STAGE THIS RESULT LONG LIFE OF PAINT.

FABRICATION

Panel Enclosures are fabricated with 14/16 SWG smooth and wrinkle free CRCA SHEETS of manufacturers like TATA/JINDAL by usage of extensive tooling in following.

PRE-TREATMENT SYSTEM

PSG use an unique method for an ideal pre-treatment, which is controlled on room temperature. In Nine Tank process, the bottom water in tank is stir and this process does not allow the sludge to deposit at the bottom in addition.

"Nine Tank"

A chemical pre-treatment system proves to be one of the best treatments. It provides a continuous layer of phosphate, which is very essential to achieve a perfect and durable powder coating layer.

WIRING

- Safe wiring is laid down by using plastic grommet and flexible conduits.
- Excellent dressing with proper printed ferrule.
- Wiring is bunched nicely with the PVC duct and loose wiring in plastic spiral.

TECHNICAL SPECIFICATION

Rated insulator voltage : 660 Volts

Rated Operation Voltage : 415V $\pm$ 10% 50Hz

RATED IMPULSE

Rated Current
1000A, 1250A, 1600A, 2000A, 2500A, 3000A, 4000A

Fault level 70KA for 1 sec

Ambient Temp 50°C

Temp. Rise 35°C over ambient

Bus Bar Support SMC/FRP/DMC/ Polymide

Degree of protection P-54/|P-55

Dimension (MM)
H=1875/2175/2400
D = 1000/1200/1400/1600
W = 600,800,1100 (Multiple)

SALIENT FEATURES

- A perfect compartmentalized construction where the partition sheet goes up to extreme end of the rear panel.
- Bolted construction facilities modification, retrofitting, and extensibility in minimum possible time.
- Provision of additional door flap over steel lock causing a further barrier to unauthorized operation and excellent aesthetics.
- Specially designed concealed profile used for gaskets to ensure dust protection.
- Panels are very sleek, aesthetics and excellent.
- Each panel is provided with plastic drawing pocket to house the relevant drawing.

RESOURCES

- 24 Hour Integrated Customer Support.
- 100% Power Back Up.
- Fiber Laser Cutting Machine.
- Hydraulic Shearing Machine.
- Hydraulic Break Press Machine
- Power Press Different Types & Capacities
- Pre-Treatment with 9 Tank Process.
- Powder Coating Dust Free Both & Oven.
- Electrostatic Guns for Powder Coating.
- Salt Spray Chamber.
- Conducting Meter.
- Hydraulic Bus Bar Bending Machines.
- Insulation Resistance Test- 1000V Megger.
- High Voltage Test Kit Up to 5 KV.
- Secondary Current Injection -5A for Relay & Meter
- Digital Coat Gauge- For Paint Thickness Measurement.
- Verniers Different Sizes.
- CT Polarity Tester.

STANDARDS APPLICABLE

- IS : 13947 LV. Switchgear Part : 1, 2, 3, 4, 5
- IS : 8623 Low-Voltage Switchgear and Control gear Assemblies
- IS : 513 Specification for cold rolled carbon steel Sheet
- IS : 6005 Code of practice for phosphating of iron and steel
- IS : 5 Colors for Ready Mixed Paints and Enamels
- IS : 613 Copper rods and bars for electrical purposes.
- IS : 694 PVC insulated cables for voltages up to 1100V.

OUR PRODUCT RANGE



- POWER CONTROL CENTRE (PCC)
- POWER CUM MOTOR CONTROL CENTRE (PMCC)
- MOTOR CONTROL CENTRE (MCC)
- POWER DISTRIBUTION PANEL (PDB)
- AUTOMATIC POWER FACTOR CONTROL RELAY PANEL (APFCR)
- AC DISTRIBUTION PANEL (ACDB)
- DG. SYNCHRONIZING PANEL
- PLC SCADA & AC DRIVE PANEL
- SOFT STARTER PANEL
- UPS PANEL
- CONTROL DESK, CONTROL POST LIGHTING FEEDER PILLER
- DRAWOUT TYPE PANEL
- SOLAR PANEL
- A.M.F. PANEL
- CONTROL & RELAY PANEL
- OUTDOOR FEEDER PILLER
- METER BOARD
- LV BUSDUCTS
- RISING MAINS
- RACEWAY
- CABLE TRAY
- SHAFT DOOR & ENCLOSURES

OUR ESTEEMED CLIENTS



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