## **Pak Elektron Limited**

#### **Motor Control Center (MCC)**

MCCs are mainly used in industrial process plants to protect and control motor loads and other similar applications. Our MCC panels are available with diverse ranges as per customer requirements.



#### **Transformer Control Panels**

PEL manufactures transformer control panels for power transformers to provide protection, control, indication and monitoring facilities.

We offer transformer auxiliary control and outdoor Control units facilitating in delivery of continuous power supply within permissible and specified ranges.



#### **Routine Quality Check (QC) Tests**

PEL has a very well organized, technically advanced and fully equipped quality control (QC) department for in-house testing and inspection to provide best quality products to our valuable customer.

Following routine tests are performed on LV panels:

Power Frequency Test (2kV) Test on Auxiliary Electrical Devices Mechanical Operation Test Design & Visual Checks











## **Pak Elektron Limited**





WORLDWIDE PARTNER

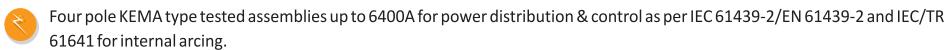
PEL is a licensed partner with GE for supplying LV SEN PLUS Type Tested panels (withdrawable type & fixed type).

SEN PLUS is new generation low voltage switchgear based on GE series; it has passed full type tests according to latest IEC 61439-2 standard.



#### WHY SEN PLUS SOLUTION?

#### **Tests & Standards:**



#### **Dust & water proof:**

✓ Front or rear Panel access

Certified to IEC 60529 for IP30-IP54 arrangements thus enable the installation of equipment in a range of environmental conditions.

#### Internal forms of separation:

Up to form 4B as per IEC 61439-2 thus enables safe modifications under energized conditions.

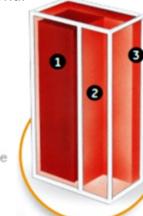
#### **Durable surface protection & Compact Design:**

Product design and epoxy power coating provides a shock and scratch resistant design & also increases functional floor space in building services.

#### **LV Type Tested Solution Features**

The system is available in different configurations and features, which include:

- ✓ Fixed, Plug-in, Withdraw able ✓ Distribution Boards
  - ✓ High current application up to 6400A
- ✓ Top and Back Bus Bars position ✓ Motor control centers
- \*\*The policy of PEL is one of continuous improvement. The right is reserved to alter the design of any product at anytime without given notice.





## PAK ELEKTRON LIMITED









#### DISTRIBUTION TRANSFORMER MANUFACTURING PLANT:

14 km, Ferozepur Road, Lahore-54760, Pakistan 34 KM, Ferozepur Road, Lahore, Pakistan Tel: +92 42 35920151-9 Tel: +92 42 35935207-21 Fax: +92 42 35920195, 35920178 Fax: +92 42 35935254 E-mail: infopd-lhr@pelgroup.com.pk E-mail: infopd-lhr@pelgroup.com.pk

**HEAD OFFICE:** 

#### **BRANCH OFFICE - KARACHI** Suit No. 503, 5th Floor,

Anum Empire, Near Baluch Colony, Shara-e-Faisal, Karachi - Pakistan Tel: +92 21 3220 0951 - 4 Fax: +92 21 32310 330

#### **BRANCH OFFICE - ISLAMABAD** 301, 3rd Floor, Green Trust Tower

Blue Area, Islamabad, Pakistan. Tel: +92 51 2813021-22 Fax: +92 51 2813023 E-mail: infopd-khi@pelgroup.com.pk | E-mail: infopd-isd@pelgroup.com.pk





Change your life

**LOW VOLTAGE SWITCHGEAR** 

- E

### **Pak Elektron Limited**



Benefits

[Low Voltage Switchgear]

#### **Pak Elektron Limited**

## SENPlus

#### **Optimized ventilation cocept**

- New fully ventilated lp42 design
- Same derating from lp30 through lp42 Full KEMA/DEKRA certified

#### For your safety

- Finger proof shrounds and barriers prevent accidental contact with busbars
- Door locks according to your safety requirements

#### **Optimum accessibility**

Simple and fast cabling

• 135/180 degree door opening angle

#### **Small modules**

- 3 new module sizes
- Optimized stacking density
- Up to 32 motor starter 11kW
- Up to 48 feeder 25A
- Use of standard terminals

#### **Rear access Power Center**

Rearward cable connection

**Rear access Motor Control Center - fixed** 

Fixed motor starter and feeder applications

Competitive alternative for power distribution

 Optimized stacking density by use of MCCB's assembled in vertical orientation

- Accessable from front and rear Rear access Motor Control Center

Main busbar position in top

Panel front and rear access

Improved panel derating

· Fully accessable from top

for infrated imaging

**Fixed Options** 

Icw up to 100kA - 1s

New busbar in top for currents up to 4500A

Separate lp40 sheet metal covers

80E mounting plate with one common

for each compartment

door or individual doors.

- Rearword cable connection
- Busbar position in top
- New compact Efficar motor starter units
- Simple and fast module assembly and wiring

#### **LV Distribution Panels**

PEL offers safe and robust LV panels customized and tailormade as per customer required system specifications for low voltage distribution system monitoring, controlling

Wide spectrum of distribution and control devices are offered for customer choice:

ACBs, MCCBs, MCBs, ELCBs, LBS, Relays, contactors, instruments and necessary meters.

Our product development and system solutions continue to set standards for quality, reliability and innovation.





"PEL is proud to possess competent team of qualified Engineers and staff covering all engineering phases from Product Development to Manufacturing, Designing, Planning, Production, Quality Assurance and Quality Control, having specialists for all these functions who strive together for excellence to achieve customer satisfaction."

# **○ ○ ○ ○**

#### **Generator Control Panels**

PEL Generator control panels can help in supplying uninterrupted power to your systems by enabling Generators synchronization, supply monitoring, supply transfer and automatic control of electrical parameters.

#### Power Factor Improvement & Control (PFI/PFC)

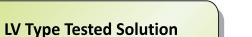
PEL PFI panels give you flexibility in choice & economy for improvement, automatic monitoring and control of your system's power factor.

We offer automatic and manual P.F. control, monitoring and metering facilities, remote controlling and indication options.



[Low Voltage Switchgear]

## **Pak Elektron Limited**



- ✓ LV Switchboards
- ✓ LV Load Centers
- ✓ LV Motor Control Center
- ✓ LV Distribution Board

#### **LV Distribution Panels**

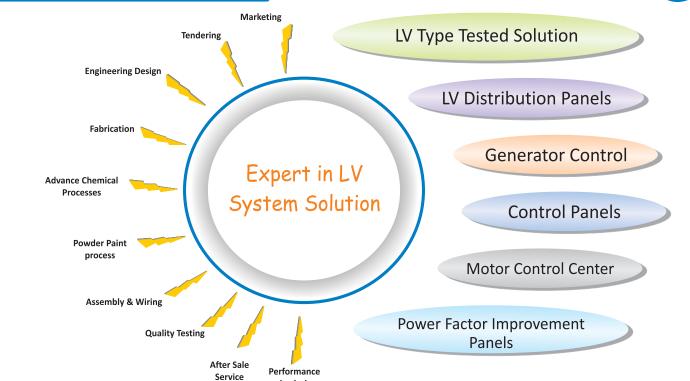
- ✓ LV Switchboards & Panels
- ✓ Street Light control Panels
- ✓ AC/DC Auxiliary Supply Panels
- ✓ Automatic Transfer Switch ✓ AMF Panels

#### **Generator Control Panels**

- ✓ Generators Synchronization
- ✓ Generators and Utility Supply Monitoring & Transfer
- ✓ Generator Parameters **Automatic Control**

#### **Power Factor Improvement**

- ✓ Monitoring and metering
- ✓ Remote control Panels



#### **Panels**

- ✓ Automatic & Manual P.F. control and improvement
- facilities

#### ✓ Withdrawable MCC Panels.

**Motor Control Center (MCC)** 

- ✓ Soft Starter Panel
- ✓ Motor Protector and

Controller

- - ✓ Power Transformer Auxiliary
    - Control Panels.

**Transformer Control Panels** 

✓ Reverse Forward Starters ✓ Power Transformer Outdoor Control Panels.

**Pak Elektron Limited** [Low Voltage Switchgear]

Low Voltage series has been designed from the outset based on customer requirements.

The result is a product that offers unrivalled flexibility and user safety, backed up by comprehensive testing and support for many specific applications:

#### Commercial

- Small and large offices
- Warehouses
- Shopping malls
- Schools
- Hospitals
- Airports

#### Industrial

- Printing
- Machinery
- Pharmaceutical
- Automotive • Paper and Chemical industry

#### **Utilities** Water treatment plants

- Waste management Energy (Electricity) distribution
- Telecommunications
- Cable providers



#### **Grip Side Low Voltage Switchgear Back**