



L&T-Ti TTA PANELS as per IEC-61439-1&2

The new Ti range LV switchboards are design verified with Aluminium and copper busbars, providing the perfect balance of cost-effectiveness, compactness and safety. Type tested Ti switchboards are the perfect solution to optimize processes and contribute to long-term profitability.

FEATURES

- » Compliance to latest IEC standard IEC 61439 1&2
- » Designed up to 5000 A
- » Stringent fault withstand capacity up to 80 kA for 1 sec
- » Double deck busbar system
- » Ingress Protection up to IP54 and IP2X after opening door
- » Best in class insulation
- » Adequate space for cabling
- » Flexibility in busbar & cable entry



VERIFIED SAFE

When dealing with electrical systems, there are no second chances. Ti is equipped with a range of safety features to safeguard your system as well as the people who operate it.

Design verified for Safety

Ti is a design verified assembly, in accordance with IEC 61439-1&2, assuring you of the highest levels of quality and safety, from design to assembly.

Safer busbars

Busbars in the Ti range have higher clearances than those prescribed by global switchboard standards (25 mm - Ph to Ph and 19 mm - Ph to N/Ph to E), offering a superior level of safety.

No accidental contact

A rotary knob ensures that an operator does not come in contact with live terminals or parts during maintenance.

Form of separation

Compartmentalized design upto Form 4B as per IEC61439-2

Zero 'stray-voltage' doors and panels

It's panel doors are designed to prevent accidental opening. We have also placed earthing contacts on every door and an Earth bar running the length of the switchboard, connected to structural members, These ensure that the outer surfaces do not have stray voltages, as this could harm an operator.

Enhanced ingress protection

A minimum ingress protection of IP2X is provided even with the doors open to ensure that an operator does not come in contact with live terminals or parts during maintenance.

Best-in class insulation

The Busbars in the Ti range are equipped with polyester glass supports for insulation. You also have the choice to install heat-shrunk PVC sleeves for extra protection.



DESIGNED FOR CONVENIENCE

The Ti range incorporates a number of features that help make installation and maintenance easy.

- » Wide Cable Alleys
- » Quick Release System for quick maintenance
- » Easy Access Doors-hinged doors that open up to an angle of 95°

COMPACTNESS SPELLS COST-EFFECTIVENESS

Ti offers flexibility and customization to suit your space requirements, ensuring that you maximize value on the space available to you.

- » Flexible busbar/cable entry position
- » Compact Feeder modules
- » Shared droppers
- » Flexible panel configurations
- » Double-front arrangement

Conforming Standards	IEC 61439 -1 & 2
Rated Operational Voltage	415-690 VAC, 24-220VDC
Rated Insulation Voltage (Ui)	690 V
Rated impulse withstand voltage	6 / 8kV
Frequency	50 / 60 Hz
Rated Current	upto 5000A
Rated peak withstand current	upto 154 kA
Short time withstand	upto 80 kA for 1 sec
Abmient temperature	40Deg C / 45Deg C / 50Deg C
Pollution Degree	3
Degree of Protection	IP-42 / IP-5x*
Form of Separation	Form 3b / 4b as per IEC 61439-2
Bus bar Material	Aluminum /Copper
Horizontal Bus bar Location	Top/Bottom
Infeed Entry	Top/Bottom
Infeed Termination	Cable / bus duct
Clearance	> 20 mm
Creepage distances	> 20 mm
Overvoltage category	II/III / IV
Surface treatment (Internal/External)	Powder coated
Damp heat cycling test	IEC 60068-2-30
Salt mist test	IEC 60068-2-11
Flame retardant, self-extinguishing, Halogen-free	IEC 60695-2-10, IEC 60695-2-11