



Ti PANELS LOW VOLTAGE SWITCHBOARDS



Unit 1 Address: D-38, Phase IV (Extn), IDA., Jeedimetla, Hyderabad - 500 055, T.S. Phone: 040-23091217, 040-23095558, 040-23091222

Unit 2 Address: Plot No. 12, Phase-IV, IDA., Jeedimetla, Hyderabad 500 055, T.S. Phone: 040-40201754

Unit 3 Address: Plot No 7/A, Phase- V, Jeedimetla, Hyderabad - 500 055, T.S. Phone: 040-47766138

Low Voltage Switchboards Technology by L&T – Ti

Salient Features:

- Range of distribution solutions to offer option of type tested copper & aluminum busbar configurations
- Has unique double deck busbar arrangement that reduces impedance
- All doors are provided with concealed hinges to reduce downtime during maintenance
- Fully compartmentalized, bolted & modular design for PCC & MCC
- Busbar in Ti have higher clearances than those prescribed by global switchboard standards
- A minimum ingress protection of IP2X is provided even with the doors open to ensure that operator does not come in contact with live terminals during maintenance.

Designed for Convenience:

- Ti range is equipped with 300mm wide cable alleys, facilitating easy and quick access at all times
- Ti range allows quick maintenance through a system that requires just a single spanner to unbolt connections from droppers.
- Ti is fitted with hinged doors that open up to an angle of 95° improving access during installation or maintenance, and saving time during each operation.

Technical Specifications:

		Standards	IEC 61439 - 1&2
Insulation characteristics		Clearance	> 20 mm
		Creepage distances	> 20 mm
		Overvoltage category	II / III / IV
		Pollution degree	3
		Field condition	Inhomogeneous (non-uniform)
Electrical characteristics	Voltage ratings	Rated operational voltage (U_e)	415-690 VAC, 24-220 VDC
		Rated insulation voltage (U_i)	690 V
		Rated impulse withstand voltage (U_{imp})	6 / 8 kV
		Rated frequency (f_n)	50 / 60 Hz
	Current ratings	Main Horizontal busbars:	
		Rated current (I_{nA})	up to 5000 A
		Rated peak withstand current (I_{pk})	up to 154 kA
		Rated short-time withstand current (I_{cw})	up to 70 kA, 1s
		Vertical Distribution busbars:	
		Rated current (I_{nA})	up to 3000 A
		Rated peak withstand current (I_{pk})	up to 154 kA
		Rated short-time withstand current (I_{cw})	up to 70 kA, 1s
Mechanical Characteristics	Degree of protection	In accordance with IEC 60529:	
		External	IP- 42 / IP-5X*
		Internal	IP 2X
	Forms of separation	as per IEC 61439 - 2	Form 3b / 4b
	Dimensions	Height (mm)	1800, 2000, 2200, 2400
		Width (mm)	440, 600, 800, 1000 (ACB section)*
			850, 1100, 1400, 1650, 1900 (Outgoing section)*
		Depth (mm)	440, 600, 900, 1000, 1100 (ACB section)*
			440, 600 (Outgoing section)*
	Surface Treatment	Structure	Powder coated
		Internal Components	Powder coated
		External Components	Powder coated
	Resistance to Corrosion	Damp heat cycling test	IEC 60068-2-30
		Salt mist test	IEC 60068-2-11
	Plastic components	Flame retardant, self-extinguishing, Halogen-free	IEC 60695-2-10, IEC 60695-2-11

*Customized solution can be offered on request.

