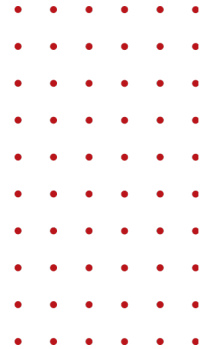


24 Years of Expertise in
Modular Enclosures



MODDIS

MODULAR SWITCHBOARD ENCLOSURE SYSTEM



Faster

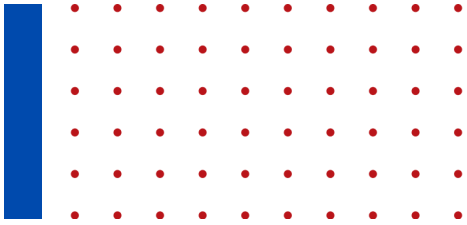
Smarter

Greener

Compliant

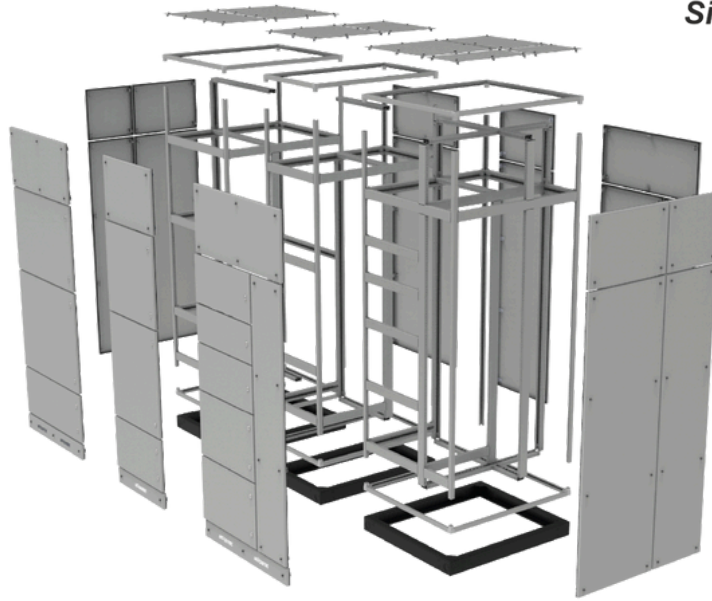
Mani Group of Companies

MODUTEC[®]
Simplifying Panel Building



MODDIS is extensively tested and verified to IEC 61439-1-2, Edition 3 standards for low voltage switchboards. All major brands of breakers, just fit perfectly into the MODUTEC modular switchboard enclosure system. It results from 35 years of innovative thinking, R&D and continuous testing at recognized test stations to global standards.





MODDIS modular enclosures are the most versatile switchboard enclosure systems at the best possible price. And, all the shipping sections of panels rest on a modular base frame which incorporates the possibility to join and design a free-standing line-up making it easy to transport section wise. We also advise many more standardizations in our Partner Program to help **simplify panel building**. MODUTEC is committed to facilitating & scaling your panel board business with ease.

Degree of protection	IP 42 / IP 55
Form of Separation	Form 2b / Form 3b / Form 4a & 4b
	Form 4a type 2 / Form 4b type 6 & 7
Entry of Cables	Top and / or Bottom
Access	Front / Front & Rear / Sides
Standard Colour	Ral 7035 Structure Finish
	Special Colours are also available

The growing demand in industrial power distribution, building & infrastructure are the important drivers increasing growth in the global electrical enclosure markets. World-wide the government of many countries has implemented stringent regulations regarding safety, compliance to IEC standards and world-class quality. To evangelize this trend and to enable any panel builder to build world-class panels in terms of quality, safety & technology, MODDIS leads in empowering: 'ON TIME DELIVERY', 'LEAD TIME REDUCTION' through 'SIMPLIFICATION'.

DIMENSIONS

Multiple of	120 or 240 mm	120 or 240 mm	120 or 240 mm	60 or 120 mm
SL NO	PANEL HEIGHT	PANEL DEPTH	FEEDER WIDTH	FEEDER HEIGHT
1	1800	360	240	180
2	2040	480	360	240
3	2160	600	480	300
4	2280	840	600	360
5	2400	1080	720	420
6		1200	840	480
7		1320	960	600
8			1080	720
9			1200	840
10				960

	Fast Moving dimension and mostly available EX-Stock
	Medium moving wherein stocks may not be EX-Stock
	Slow moving and mostly made to order

Our Technically strong team are always ready to simplify your complicated GA drawings and suggest you the best possible combinations as per the IEC Standards, for any of your enclosure requirements please plan to discuss with our team right from the initial stage to customize your design and plan your project costs.



Type-Test Certified



100% modular enclosure systems for all your electrical needs



World class Packing for both domestic and International Markets



Can be supplied in both flat pack and assembled conditions to support your Transportation costs

intertek
Test Quality Assured

ASTA TYPE CERTIFICATE
VERIFICATION OF TEST

Project No: G104214927 **Certificate No:** ASTA-TYPE-00039R1

Applicant: M/s. J. Block, MDCB Bhosur, Pune-420026, MAHARASHTRA India

Apparatus: 5000A, 415V/500V AC (50/60 Hz), 5000A to 10000A force ventilated power electronic and capacitor assembly incorporating three phase and neutral vertical and horizontal painted black aluminum busbar system with Modutec Electric switchgear line including ACS unit, two outgoing ACS units, three outgoing MCCB units and a protective circuit.

Manufactured By: Modutec Electric India Pvt. Ltd.
E5, 3, J Block, MDCB Bhosur, Pune-420026, MAHARASHTRA India

Assembled By: Modutec India Pvt. Ltd.
No. 23, Sy No 105, Old Road, K. Asaram Industrial Layout, Off Kanakapura Road, Kaggalpur, Bangalore-560116

Test Report No: WD-1920-05206

Designation: 5000 Amps, 415 Volts PCC PANEL, Make: METTA

The apparatus which is representative of the designation, supplied drawings and photographs has been evaluated as accordance with:

IEC 61439-2: Edition 2: 2011-08 & BS EN 61439-2: 2011

Verifications with reference to the tests listed in Annex D of IEC 61439-1: Edition 2: 2011-08

1. Strength of material and parts	6.78: No verification by testing required
2. Degree of protection of enclosures	6: Degree of protection
3. Clearances	10: Temperature-rise limits
4. Creepage distances	11: Short-circuit withstand strength
5. Protection against electric shock and integrity of protective circuits	12: Electromagnetic compatibility (EMC) protective circuits
13: Mechanical operation	

The results are shown in the record of tests attached hereto. The values reported and the general performance is considered to comply with the above Standards and to justify the ratings assigned by the manufacturer as stated in the appropriate part of the Certificate. This Certificate applies only to the apparatus tested. Responsibility for conformity of any apparatus having the same or other designations rests with the Manufacturer.

Certification Engineer
 Certification Officer
28th January 2022 Date of issue

DEKRA

TEST CERTIFICATE

Issued to: LS ELECTRIC CO. LTD
Changsha Plant 2
Wuyangyong Road 88, Heung deung-gu, Changsha
410000, South Korea

For the product: Low-voltage switchgear and controlgear assembly

Trade name: LS ELECTRIC - EM50L

Typemodel: 18SDA Modular Panel Board

Rating: 1800 A (at 50 °C ambient), UL 415 V, LI 1000 V, max. U_{LN} 12 kV
IP20, max. 40°C
50 kA - 3 s (main busbar and incoming units)
50 kA - 1 s (distribution busbars)
50 kA at 415 V (incoming unit and outgoing units)
For more details see annex

Manufactured by: LS ELECTRIC CO. LTD
9002 Nongseon, 1347 45, Ansanbuk Colony
Yongin-si, Gyeonggi-do, 305004

Subject: Design verification

Requirements: IEC 61439-2:2012: 6.6.3.3
Clauses: 10.2, 10.3, 10.4, 10.5, 10.6, 10.7, 10.8, 10.9, 10.10, 10.11, 10.12, & 10.1

Remarks:

This Test Certificate is granted on account of an examination by DEKRA, the results of which are laid down in report no. 4800263-01-INC, issued 28 October 2022.

The examination has been carried out on one single specimen of the product, submitted by the manufacturer. This attestation does not include an assessment of the manufacturer's production. Conformity of his production with the specimen tested by DEKRA is not the responsibility of DEKRA.

Anheim, 28 October 2022 Number: 4800263-01-INC

DEKRA Certification Officer
H. L. Schmitt
Certification Manager

© Intertek publication of the certificate and adjoining reports is allowed

DEKRA Certification S. G. Member 1001, 40200 Anheim P.O. Box 1100, 40200 Anheim, The Netherlands
T +31 88 38 82000 F +31 88 38 82100 www.dekra-verification.com Company registration 190053008

CENTRAL POWER RESEARCH INSTITUTE
CPRI

TEST REPORT

Test Report Number: CPRI/INVT/187652 **Issue:** 13.06.2019

Name & Address of the Customer: M/s. Load Controls India Pvt. Ltd.,
Regd. Of & Factory No. 1, 3&3, Survey No 103, Urban Road,
K. Ashwath Industrial Layout, Of Kanakapura Road,
Kaggalpur, Bangalore-560026
Ref. Customer request form dated: 08.06.2019

Name & Address of the Manufacturer: M/s. Load Controls India Pvt. Ltd.,
Regd. Of & Factory No. 1, 3&3, Survey No 103, Urban Road,
K. Ashwath Industrial Layout, Of Kanakapura Road,
Kaggalpur, Bangalore-560026

Particulars of sample tested: 110kV, VCB Panel

Condition of the sample on Receipt: New

Type: 110kV, VCB Panel (Sheet 2 of 4)

Serial Number: Panel LC-1908/0001/011, VCB 50-2017-013-0-10

Number of samples tested: One

Date of Test: 08.06.2019 to 10.06.2019

CPRI sample code no: PCC/0805024

Particulars of tests conducted: Temperature rise test at 1200A

Test in accordance with standards/specification: As per IEC 62271-200:2011

Sampling rate: Nil

Customer requirement: Nil

Condition of entry: Nil

Name of the witnessing persons: Nil

Customer's representatives: Nil

Other than Customer's representatives: Nil

Test conducted with address of the laboratory: Nil

Documents constituting this report (in words): Nil

Number of drawings: Nil

Number of photos: Nil

Number of sheets: Nil

Number of Test Circuit Diagrams: Nil

Number of Drawings: Nil

These: 11 Chg No: 19001-01718, Sheet No: 01 Of 03, Rev: 00
02 Chg No: 19001-01718, Sheet No: 02 Of 03, Rev: 00
03 Chg No: 19001-01718, Sheet No: 03 Of 03, Rev: 00

Checked by: (KARUNAKARAN)
Head of Division
Approved by:

U.S. IEC 62271-200:2011, IEC 60076-1, IEC 60076-2, IEC 60076-3, IEC 60076-4, IEC 60076-5, IEC 60076-6, IEC 60076-7, IEC 60076-8, IEC 60076-9, IEC 60076-10, IEC 60076-11, IEC 60076-12, IEC 60076-13, IEC 60076-14, IEC 60076-15, IEC 60076-16, IEC 60076-17, IEC 60076-18, IEC 60076-19, IEC 60076-20, IEC 60076-21, IEC 60076-22, IEC 60076-23, IEC 60076-24, IEC 60076-25, IEC 60076-26, IEC 60076-27, IEC 60076-28, IEC 60076-29, IEC 60076-30, IEC 60076-31, IEC 60076-32, IEC 60076-33, IEC 60076-34, IEC 60076-35, IEC 60076-36, IEC 60076-37, IEC 60076-38, IEC 60076-39, IEC 60076-40, IEC 60076-41, IEC 60076-42, IEC 60076-43, IEC 60076-44, IEC 60076-45, IEC 60076-46, IEC 60076-47, IEC 60076-48, IEC 60076-49, IEC 60076-50, IEC 60076-51, IEC 60076-52, IEC 60076-53, IEC 60076-54, IEC 60076-55, IEC 60076-56, IEC 60076-57, IEC 60076-58, IEC 60076-59, IEC 60076-60, IEC 60076-61, IEC 60076-62, IEC 60076-63, IEC 60076-64, IEC 60076-65, IEC 60076-66, IEC 60076-67, IEC 60076-68, IEC 60076-69, IEC 60076-70, IEC 60076-71, IEC 60076-72, IEC 60076-73, IEC 60076-74, IEC 60076-75, IEC 60076-76, IEC 60076-77, IEC 60076-78, IEC 60076-79, IEC 60076-80, IEC 60076-81, IEC 60076-82, IEC 60076-83, IEC 60076-84, IEC 60076-85, IEC 60076-86, IEC 60076-87, IEC 60076-88, IEC 60076-89, IEC 60076-90, IEC 60076-91, IEC 60076-92, IEC 60076-93, IEC 60076-94, IEC 60076-95, IEC 60076-96, IEC 60076-97, IEC 60076-98, IEC 60076-99, IEC 60076-100

Sheet 1 of 8

TECHNICAL SPECIFICATIONS FOR MODUTEC ENCLOSURES

Description	Material	Thickness
Frame Bar	AluZn	2 mm
Cross Bar	AluZn	2 mm
Hinged Door	CRCA with PC	1.6 / 2 mm
Bolted Cover	CRCA with PC	1.6 / 2 mm
Gland Plate	CRCA with PC*	2mm / 3 mm
Side Separation Plate	AluZn	1.2 mm
Feeder Separation Plate	AluZn	1.2 mm
Coupling Sheet	AluZn	1.2 mm
Busbar Chamber Separation Plate	AluZn	1.2 mm
Top Cover / Bottom Cover	CRCA with PC	1.6 mm
Mounting Plate	AluZn	2 mm
Cable Ladder	AluZn	2 mm
Plinth	3 mm CRCA / 75 / 100 ISMC with PC	
Busbar Support Fixing Channel	AluZn	2 mm
Busbar Insulators	SMC / Nylon 66	
Busbar Insulator Support	AluZn	2 mm
With Modular Accessories	CRCA with ZINC Blue Passivation Plating	

* Can be customised as per customer requirement.

The above specifications are indicative and are subjective to change without notice.

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Modutec Ready Panels Pvt Ltd

No. 4, Survey No 105 , K.Ashwath Industrial Layout, Uttari Road
Kaggalipura, Off Kanakpura Road, Bangalore - 560116, India



+91 99014 59624, +91 98450 40837



sales@modutec.net, modular@modutec.net



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Techtron Electromechanical Contracting LLC

Office 53, Floor 9, Tower 3, Mazyad Mall,
Mohamed Bin Zayed City, Abudhabi, UAE.

 mohamedirfan@techtron.ae, sales@techtron.ae

 +971 50 949 8699

 www.techtron.ae