

MASS-TECH
C O N T R O L S

P R I V A T E L I M I T E D

HISTORY

MASS TECH was established in the year 1993 with the aim to become a market leader in the field of DC systems. Mr. Subhash Patil, it's founder, is an electrical engineer, with the specialization in Industrial Electronics & Micro Processor control applications. Over the years, Mass-Tech has established itself as leading manufacturer of battery chargers and control panels.

OVERSEAS VENTURE

- **USV Power GmbH** is a joint venture between Mr. Subhash Patil, promotor of Mass-Tech controls and Mr. Wolfgang Pietsch, promotor of SRS Stromversorgungsanlagen, Germany. USV Power is actively engaged in R&D activities, and does most of design and development for Mass-Tech Controls. USV Power also continuous to design new products for European Market. Among the various products and accessories developed are SMPS modules for DC Charging equipment, monitoring and controlling equipment and DC-DC converter and other power conditioning units. SMPS modules of various rating for electric vehicle charger are being developed.

Fronius : International GmbH, Austria

Mass-Tech is representing Fronius GmbH in India, since 1998, for their Battery Charging Equipment and for Solar Inverters since 2018.

Corrosion Control Ltd. UK

Mass-Tech is in the business of Cathodic protection equipment jointly with Cathodic Corrosion Control Ltd. UK for various product like anode, junction boxes, transformer rectifiers etc.

FIIN OY, Finland

Mass-Tech has also joined hands with FIIN OY, Finland for Power Electronics business.

VISION & MISSION

- Meet & exceed customer expectations through supply of quality product and services & create opportunities for further continued business
- This is achieved through continuous quality improvement and 100% involvement of employees at all the levels

ENGINEERING AND R&D

- Mass-Tech has its own research and development team which constantly innovates and adapts the products to suit the requirements of the customer with vertical integration that ensures cost reduction and quality improvement
- Mass-Tech also outsources its R&D to USV Power GmbH , since Mr. Patil holds 50% stake in USV Power GmbH
- Mass – Tech with its expertise in the field of DC systems, after understanding the exact requirement of the customer, is capable of designing most appropriate scheme for the application
- Mass-Tech has prepared its own design manual based on the relevance and standards of its own field experience





OUR STRENGTH

- Experienced in total DC System Design
- Manufacturer of 24,48,110,220 V, and upto 1000 V DC Power Systems
- Maximum current rating of DC Systems 550 kW
- Specialization in both SCR & SMPS technology
- Strong Knowledge of applied engineering

AFTER SALES & SERVICES

- We guarantee that after sales support is available on all products manufactured by us.
- We always try to provide our customers latest innovation available with latest technology.
- For attending any breakdown or service, we have a team of service engineers who are always on their toes, ready to reach any destination within a short time all over India.
- All our service engineers are competent and well equipped to set right any problem.
- **24/7** customer **support** means customers can get help and find solutions on line.

INFRASTRUCTURE

Established : Dec 1993

Total Factory Area : UNIT : 2000 Sq. Mt.

Total Employees : 175

R&D : 20 nos

Service: 30 nos



INFRASTRUCTURE



SHOP FLOOR



SHOP FLOOR (INDUSTRIAL)



ENGINEERING DEPARTMENT

DC SYSTEM

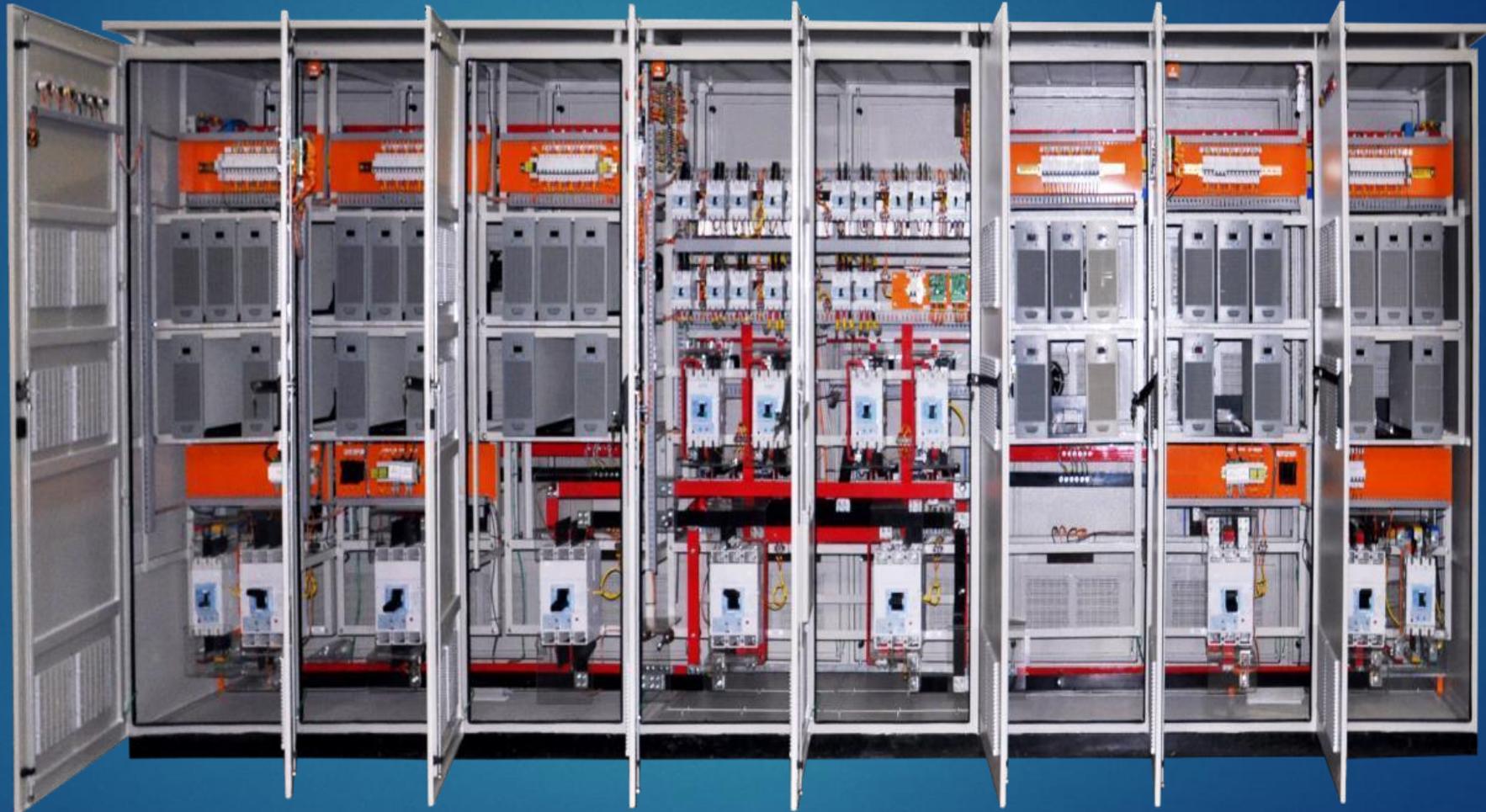
Features:

- Fully automatic electronic SCR controlled
- Output short circuit proof
- Liberal design margins and safety factors
- Voltage drooping characteristics for Float charger to pass on momentary or short time over loads to battery
- Soft start feature to minimize inrush current to battery when charger is re-energized
- Battery Test Function (optional): With this function Battery healthiness & battery discharge path can be checked online
- Temperature Controlled Charging (optional)

Rating:

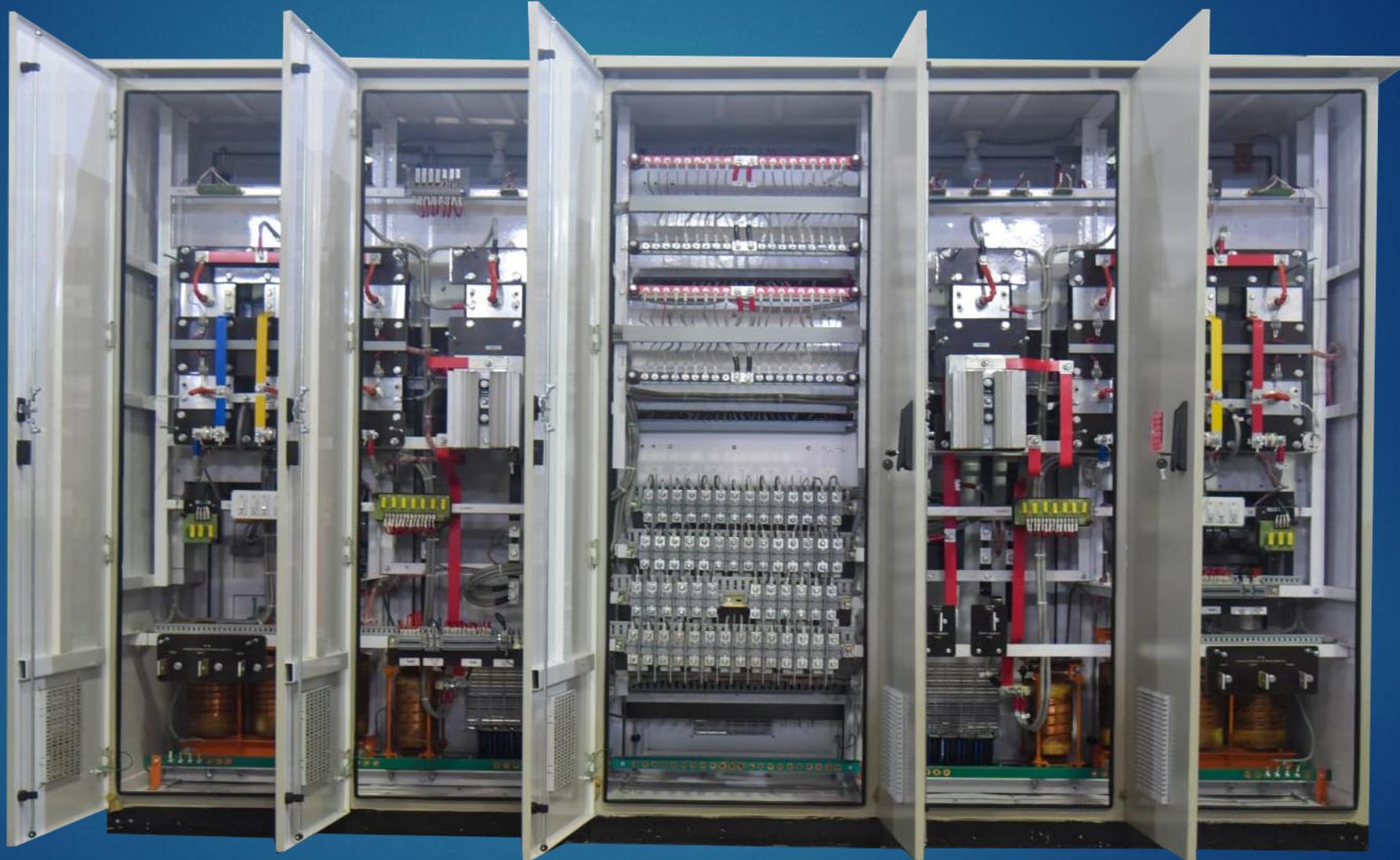
- 12V, 24V, 48V, 110V, 220V or any custom made, up to 500 kw suitable for Lead Acid Flooded, SMF (VRLA) and Ni-Cd Batteries

SMPS BASED DC SYSTEM



SMPS 220V,800A,Dual DC SYSTEM

THYRISTOR BASED DC SYSTEM



220V,100A Dual FCBC with Integral DCDB

SMPS , DC-DC CONVERTER & INVERTER

Features:

- Rack mounting, Base mounting , Rear panel mounting or Table top type
- Wide input range
- Protections against output short circuit, overload, output under and over voltage, Input under and over voltage
- Built in RFI suppression
- Excellent dynamic response
- Galvanic isolation up to 2.5 KV
- Also available dual input i.e AC as well as DC I/P supply

RECTIFIERS

| OUTPUT VOLTAGE (VDC) | CURRENT (A) |
|----------------------|-------------|
| 220 VDC | 12.5 A |
| 110 VDC | 25 A |
| 48 VDC | 50 A |
| 24 VDC | 70 A |
| 60 VDC | 40 A |

| OUTPUT VOLTAGE (VDC) | CURRENT (A) |
|----------------------|-------------|
| 110 V | 10 A |
| 110 V | 20 A |
| 110 V | 40 A |
| 220 V | 10 A |
| 220 V | 20 A |
| 220 V | 40 A |
| 220 V WITH APFC | 20 A |



SINGLE PHASE RECTIFIER



THREE PHASE RECTIFIER

INVERTERS

| AVAILABLE VOLTAGE | kVA RATING | OUTPUT VOLTAGE & FREQUENCY |
|-------------------|------------|----------------------------|
| 110V/220VDC | 1 kVA | 110V/220VAC 50Hz/60Hz |
| | 2 kVA | |
| | 3 kVA | |
| | 4 kVA | |
| | 5 kVA | |
| | 6 kVA | |
| | 7 kVA | |
| | 8 kVA | |
| | 9 kVA | |
| | 10 kVA | |
| 24V/48VDC | 1 kVA | 24V/48VAC 50Hz/60Hz |
| | 2 kVA | |
| | 3 kVA | |
| | 4 kVA | |



INVERTER

DC-DC CONVERTER

| INPUT VOLTAGE | OUTPUT VOLTAGE | OUTPUT CURRENT | OUTPUT POWER |
|---------------|----------------|----------------|--------------|
| 220VDC | 24VDC | 70A | 1680W |
| 110VDC | 24VDC | 30A | 900W |
| 220VDC | 48VDC | 50A | 2400W |
| 110VDC | 48VDC | 20A | 1000W |



DC – DC CONVERTER

DC-DC CONVERTER

| INPUT VOLTAGE | OUTPUT VOLTAGE | OUTPUT CURRENT | OUTPUT POWER |
|---------------|----------------|----------------|--------------|
| 24VDC | 48VDC | 10A | 500W |
| | | 20A | 1000W |
| | | 30A | 1500W |
| 48VDC | 48VDC | 20A | 1000W |
| | | 30A | 1500W |
| | | 50A | 2400W |
| 48VDC | 24VDC | 20A | 500W |
| | | 40A | 1000W |
| | | 60A | 1500W |



DC – DC CONVERTER

LV SWITCHGEAR & CONTROL PANEL

Features:

- Single front, Double front, Fixed type, Semi draw-out type, Fully Draw-out type, Fully isolated Vertical & Horizontal bus bar chamber Fully isolated cable chamber
- Manufactured out of CRCA sheets, Floor mounting, Free standing, Vermin & Dust proof
- Powder coated with 7 tank pre-treatment
- Degree of protection up to IP55, Short Circuit withstand strength upto 50KA
- PLC based AUTOMATION Panels with MMI

Rating:

- 1000V AC/DC upto 5000A

LV SWITCHGEAR & CONTROL PANEL



220V-630A DC DISTRIBUTION BOARD



400V-250A MOTOR CONTROL CENTER PANEL (MCC)



415V-1600A AC DISTRIBUTION BOARD





MCC



PCC



MCC

MAJOR ACHIEVEMENTS

MASS-TECH Controls Pvt Ltd., has added another feather in its cap by bagging a prestigious order for supply of Motor Control Centers and LCPs. This order is from ITER (International Thermonuclear Experimental Reactor).

ITER is a collaboration of 35 developed nations namely USA, Russia, South Korea, China, Japan, European Union and India. This is a project to create a miniature Sun on Earth in France, for generating unlimited supply of clean energy from a non-polluting source.

Through L & T, Mass-Tech has executed an order for 15 nos MCC Panels and 42 LCPs. ITER has also directly placed an order of 4 MCCs, and SIC Heat Tracing Panel and Accessories, which will be used for the project.

Considering the severe environment, the panels have been tested against seismic conditions.

These electronic controllers/modules/battery chargers/mcc panels have been extensively tested for the following parameters:-

- 1) ESD immunity as per IEC 61000-4-2:2008
- 2) Radiated Immunity per IEC 61000-4-3:2010
- 3)Fast Transient per IEC 61000-4-4:2012
- 4) Surge per IEC 61000-4-5:2017
- 5) Emission per IEC 61000-6-4:2011



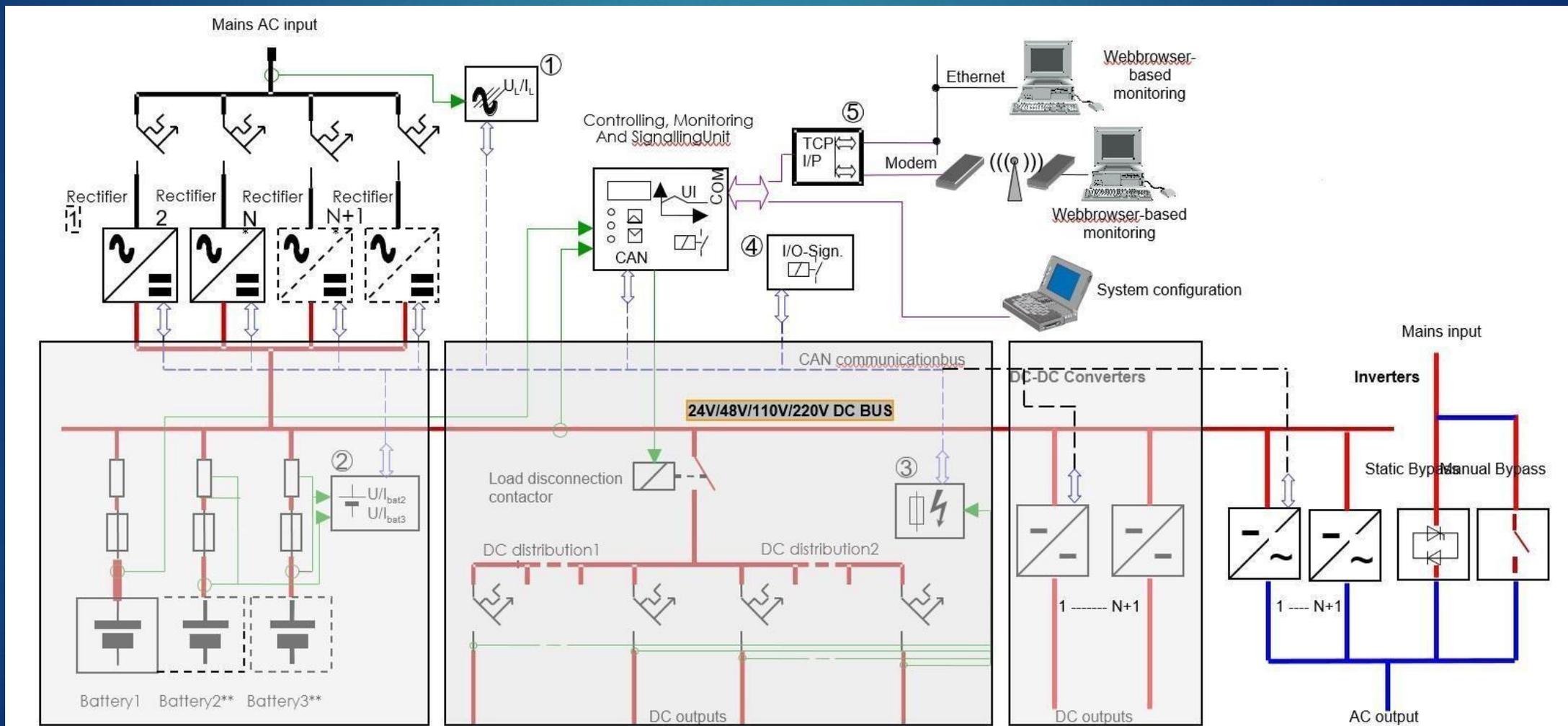
ITER FRANCE

MODULAR POWER SUPPLY SYSTEM

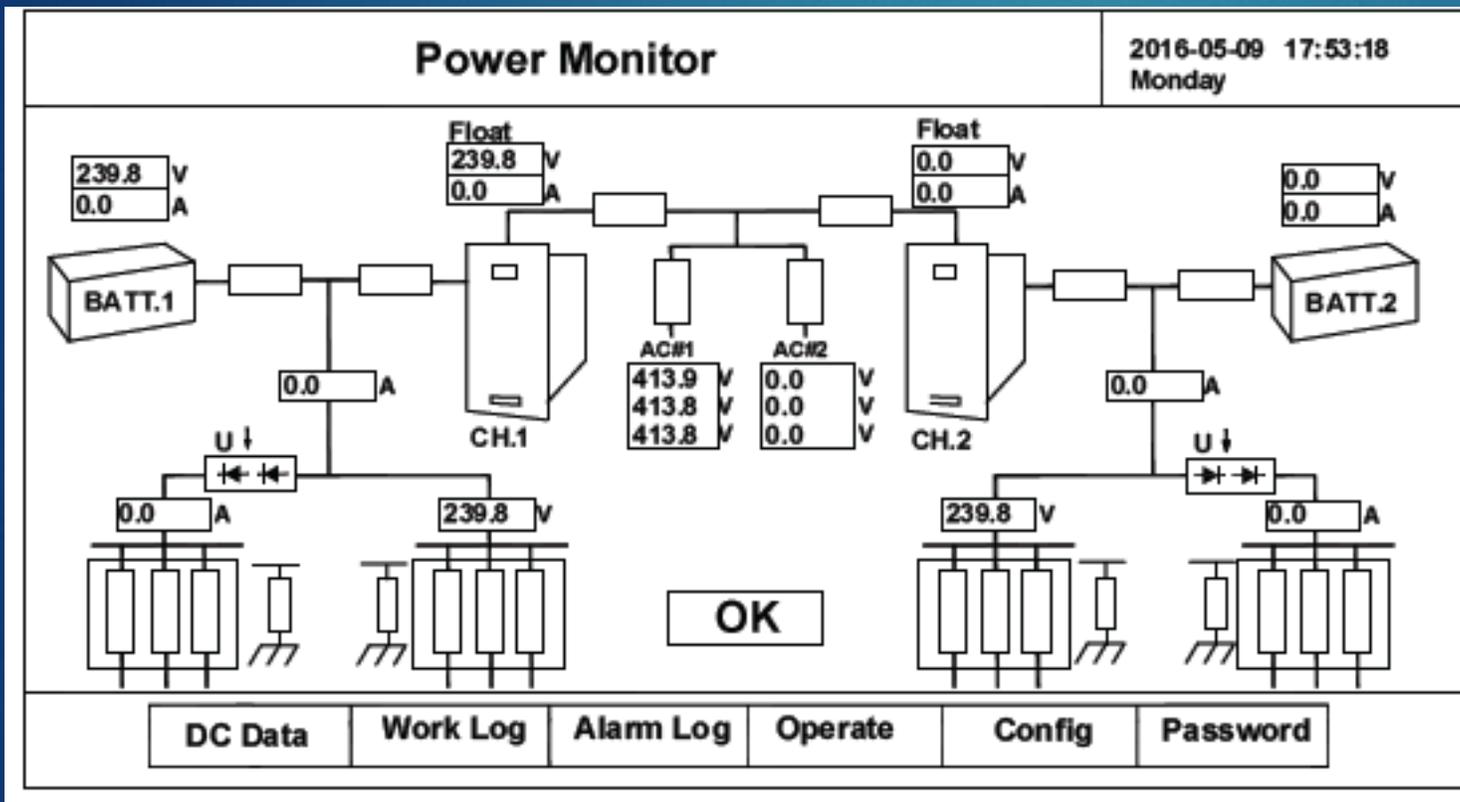
Consist of:

- SMPS modules: for Battery Charging & supplying load
- DC-DC Converter Modules: For Supplying different DC voltages load
- Inverter Modules: with optional Static bypass switch for supplying single phase or Three phase AC load.
- Control & Monitoring Unit: for Power Supply Management , Battery Management, Remote Monitoring & Control Through Modems/ Industrial Ethernet
- Racks: for mounting Power Supply Modules, Connection of input, Output & Load Distribution

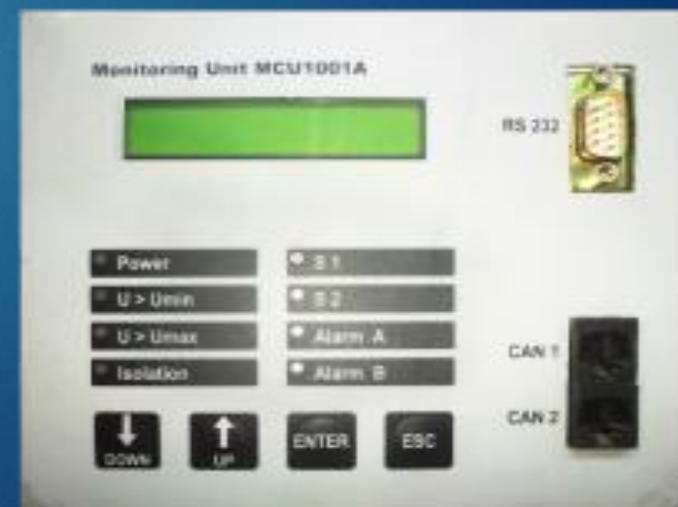
MODULAR POWER SUPPLY SYSTEM



DC SYSTEM SUPERVISORY UNIT



Touch Screen Controller



MODULAR POWER SUPPLY SYSTEM



BatteryCell Voltage Monitoring

MTBM – 19



- Detect 19 single battery voltage, the battery rated voltage is 12V
- Detect 1No. battery ambient temperature.
- Applicable 9/18 cell battery group, the battery rated voltage is 12V.

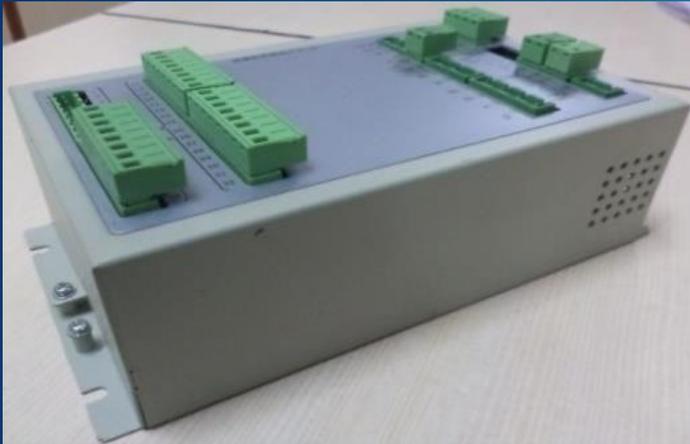
MTBM – 55



- Detect 55 single battery voltage, the battery rated voltage is 2V.
- Detect 2Nos. battery ambient temperature.
- Applicable 54/108 cell battery group, the battery rated voltage is 2V.

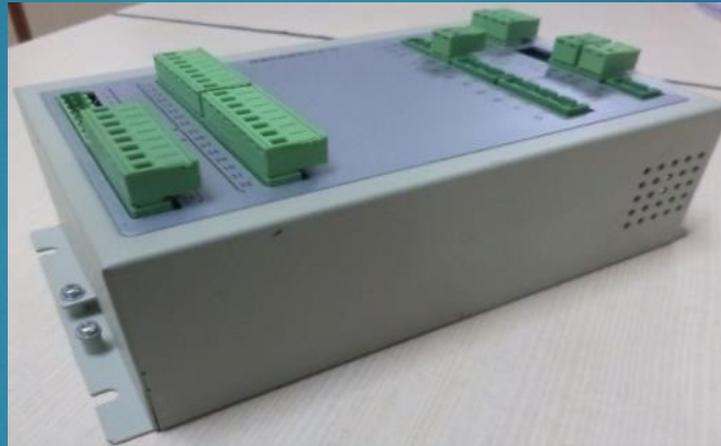
INDIVIDUAL FEEDER EARTH FAULT

MTEF - 32



- Detect 1No. Bus insulation.
 - Detect 32Nos. Of Branch insulations.
- DC CT required for individual feeder leakage current sensing.

MTEF - 64



- Detect 2No. Bus insulation.
- Detect 64NOs. Of Branch insulations.
- DC CT required for individual feeder leakage current sensing

MTDB – 64 (DCDB Feeder Status Detector)



- Detect 64NOs of input signals
- Provide 8 signal output
- Applicable for more number of outgoing feeder.

POLARIZATION RECTIFIER

Features:

- Auto / Manual
- Output short circuit proof
- Liberal Design margin
- In built power factor correction and harmonic filter
- AC input overload protection
- Modular Concept, Hot Swappable

Rating:

- 50V/300A
- 220V/50A DC, 220V/75A DC
- 420V/60A DC, 420V/75A DC
- 500V/75A DC
- 630V/50A, 630V/170A, 630V/225A DC



CATHODIC PROTECTION

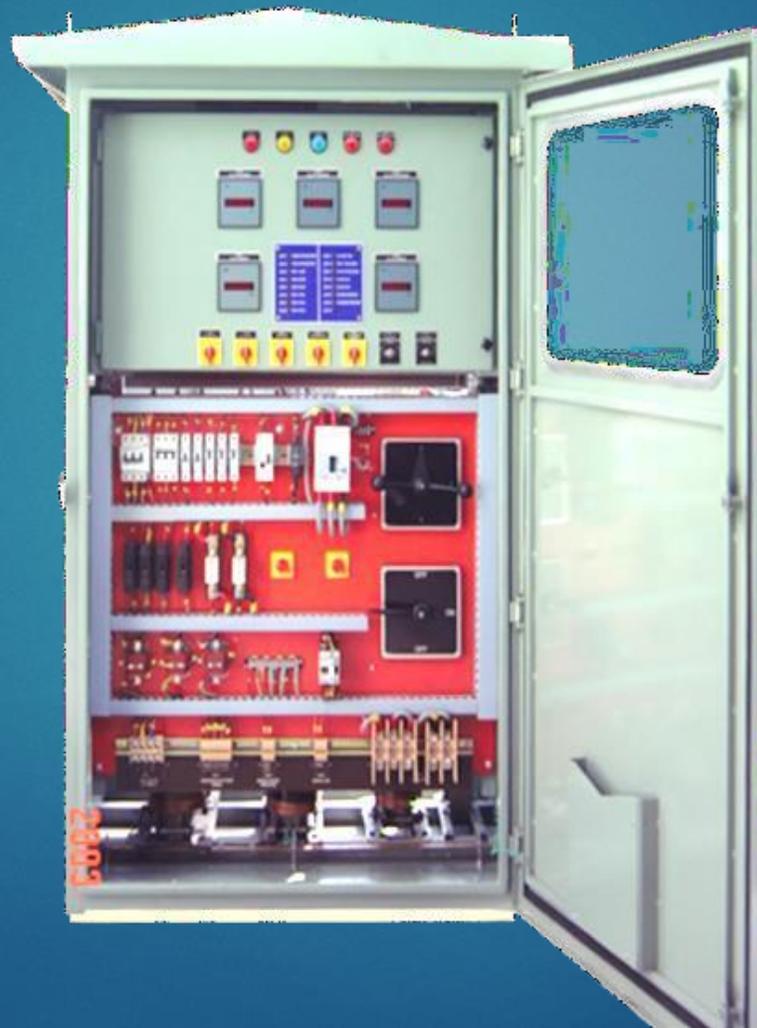
Cathodic Protection (CP) is a method of corrosion control that can be applied to buried and submerged metallic structures. In conjunction with coating, a properly designed and maintained CP will ensure a 100% efficient corrosion Protection System.

The Principle of CP is to prevent anodic sites occurring on the structure under protection by allowing anodic reactions to occur on specially designed and installed anodes.

Products:

- Transformer Rectifier Unit (TRU)
- Junction Box:
- Bond Box
- Positive Distribution Box
- Negative Distribution Box
- Positive Splitter Box
- Multipurpose Junction Box
- Support Frames

CATHODIC PROTECTION



SOLAR SYSTEM

We undertake ,Complete engineering solution for setting up solar power plant.

- Design of system topology.
- Engineering and calculation of system parameters.
- Selection and sourcing of right equipment
- Compliance to required standards and regulation.
- Effective project management.



Reliance Solar Project



SOLAR INVERTER

- Mass-tech is the representative of Fronius International, Austria for their solar inverters in India.
- Fronius String Inverters range from 1.5kw to 27kw and from 36kw to 430kw in Central Inverter.



FRONIUS SYMO MODEL



FRONIUS AGILO MODEL

ENERGY STORAGE SYSTEM



50kW /100Wh,100kW /200kWh
Lithium Battery Energy Storage System Cabinet
(As per customer requirements)

CONFIGURATION

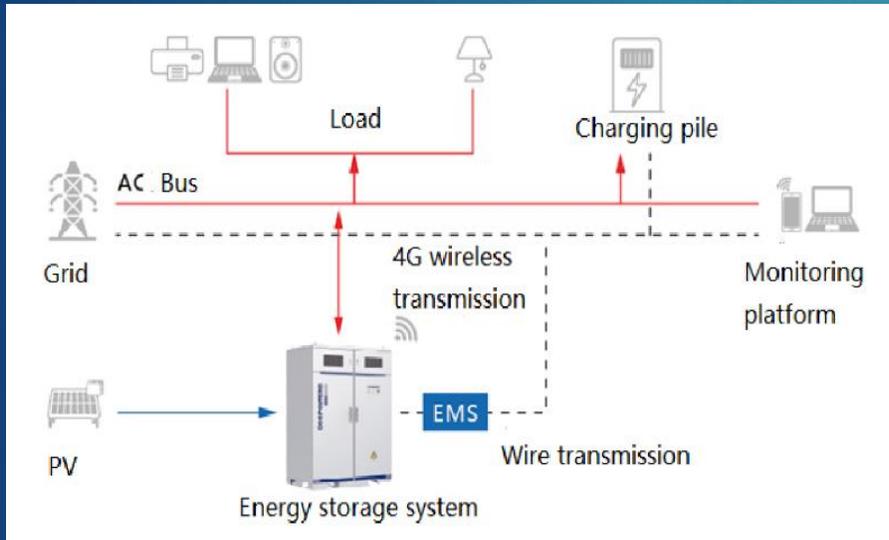
PCS - Energy storage has 2 main parts. The PCS (Power Conversion System) handles AC to DC and DC to AC conversions, with AC to DC used for charging the batteries and DC to AC which converts battery storage power to AC Power and fed to the grid or Load.

BMS - The Battery Management System (BMS) controls proper operation of each cell ensuring the system works within the safe range of voltage, current and temperature, does the battery cell charging, balancing, and health monitoring. This ensures higher efficiency and longer life of the battery cell.

Battery – Lithium Ion batteries are used in the ESS. Using combination of series and parallel cells to form battery clusters, and further arranging the clusters in series to form battery modules.

Energy Management System - The purpose of the EMS is to monitor the power flow according to the specific application.

Transformer - According to the system size, medium / low voltage or high voltage/medium voltage in substations



APPLICATIONS

Solar Farms

Power grid, power transmission & distribution

Home Application

Data Centers

Commercial Establishments

Micro Grid

RATING

1) 50 KW / 100 KWH 2) 100 KW / 200 KWH 3) 3 MW / 1.5 MWH 4) 2.5 MW / 2.5 MWH

ADVANTAGES OF ESS

Uninterruptible Power Supply : ESS can provide power during Power interruption.

Load Levelling : Due to charging demand during the day time, the grid is subjected to a lot of stress, the ESS helps flatten the demand curve by charging when electrical demand is low and discharging when the demand is high.

Peak Shaving : Drawing power from the batteries during higher cost day time hours and recharging during Lower cost right time.

Using Renewables to Supplement Power : Supplementing the energy generated by Solar panels when sun energy is available, or wind turbine when wind is blowing, allows to help take advantage of electricity that is generated when renewable energy is not producing electricity.

BATTERY MAINTENANCE TOOL

Multi Application:

- Battery / cell condition checking
- On line Charging of sick cell
- Hot Standby Float Rectifier
- Battery Re-conditioner for batteries in storage
- Universal Charger



Application Areas:

- 110 V/ 220V – Switchgear Protection Systems
- 48V – Communication Systems
- 380V or above – UPS Systems
- 24V – Instrumentation & Control Systems, Fire Alarm / Security Systems
- 24/36/48/72V /80V– Battery Operated Vehicles

REGAL REGISTER (UK) LIMIT



CE Certificate



ISO 9001:2015



ISO 14001:2015



ISO 45001:2018



ISO/IEC 27001:2013

OUR PARTNERS



Fronius
International,
Austria



SRS
Stromversorgungsanlagen
GmbH, Germany



Sicon Chat Union Electric Co. Ltd.
China



Shijiazhuang TonHe,
China



Setec Power
Company, China

MAJOR CLIENTS For DC SYSTEMS



MAJOR CLIENTS FOR DC SYSTEMS



L&T Corporate Logo



CLIENTS FOR DC SYSTEMS

- **Power Sector**
 - Reliance Energy Limited
 - Thermax Ltd.
 - Tata Power Delhi Distribution Limited
 - Bharat Heavy Electricals Ltd.
 - Tata Power Company Limited
 - Nuclear Power Corporation Of India
 - Andritz Hydro Pvt Ltd
 - Toshiba India Pvt. Ltd.
 - Wartsila NSD India Ltd.
 - ABB Ltd.
 - Hindalco Industries
 - Siemens Ltd.
 - Grasim Industries Ltd.
 - Larsen & Toubro Ltd.
 - Flovel Energy Pvt Ltd.
 - National Thermal Power Corpn
 - Avaada Clean Project Pvt Ltd.
- **Refineries / Petrochemicals / Oil & Gas**
 - Reliance Industries
 - Reliance Petrochemical Co.
 - Hindustan Petroleum Corpn Ltd.
 - Oil & Natural Gas Corpn Ltd.
 - Essar Oil Refinery Ltd.
 - Bongaigaon Refinery Pvt Ltd.
 - Bharat Petroleum Corpn Ltd.
 - Gas Authority of India Ltd.
- **Infocomm Industries**
 - Reliance Infocomm Ltd.
 - Mahanagar Telephone Nigam Ltd.
 - Bharat Sanchar Nigam Ltd.
 - Tata Infocomm Limited
- **Cement & Steel**
 - Associated Cement Company
 - Tata Steel & Cement Company
 - Prism Cement
 - Rajashree Cement Limited
 - Ultratech Cement (L&T Cement)
 - Jayshree Cement Limited
 - Grasim Cement
 - Jaypee Cement Limited
 - Essar Dhananjaya PT – Indonesia
 - Saurashtra Cement Limited

CLIENTS FOR DC SYSTEMS-EXPORTS

- ITER Organization, France
- Essar Dhananjaya , Indonesia
- Oil Purification Plant, Egypt
- Dhaka State Electricity Board, Bangladesh
- Shah Cement Industries Ltd. , Bangladesh
- General Corp, Bangladesh, Iraq
- TCIL, Uganda
- IMPSA(M) sdn. Bhd., Malaysia
- NIPCO PLC at Lagos, Nigeria
- Shalina Laboratories A/c Chemaf Chemicals, Africa
- M/s. Nividhu Assupiniella (Pvt.) Ltd., Colombo, Sri Lanka
- Kuwait Cement Company, Kuwait
- Electricity Company of Ghana, Africa,
- Mopani Copped Mines, Zambia
- Jana Jubail Chemical Industries HASSAD Project, Saudi Arabia
- Mien Trung Power Investment & Development, Vietnam
- Hazardous Area Products, Birmingham, UK
- Ministry of Transport (MOT), Kabul
- 12.5 MW co Generation Plant, Battan 2020 Project at Phillipines
- Exir Chemical Terminal Co., Iran
- Steel Melting Shop, Hama, Syria
- Mailun Khola, Nepal
- Cogen Plant of Sugar Refinind Project, Yemen
- RGK Group, Myanmar

MAJOR CONSULTANTS

- Engineers India Ltd.
- Development Consultants Ltd.
- Tata Consulting Engineers
- DESEIN
- Bechtel
- M N Dastoor & Co.
- ABB Lumens Crest Ltd.
- Chemtex
- Kvaerner Power Gas India Ltd.
- Fichtner Consulting Engineer
- TOYO Engineering
- Avant Garde Enggs & Consultants Pvt. Ltd.
- Aker Powergas Pvt. Ltd.
- Ducon Technologies
- Worley India Pvt Ltd.
- P.D.I.L.
- Jacobs Humphrey & Glasgow
- Unik Engineers
- MECON
- Gerzi Eastern Ltd.
- Dalal Consultants & Engineers Ltd.
- Technip
- Udhe India
- Thyssenkrupp India Pvt. Ltd.

INFRASTRUCTURE - METAL ENCLOSURES PLANT

Assembly Line - DB



Turret Punching Machine

Amada Bending Machine



- **Area :- 4000 SqM**
- **Plant 1009 Infra Structure :-**
 - Auto Powder Coating Line – Wagner (Germany)
 - DB Assembly Line – 4 Nos.
 - Auto Press 160T- 4 Nos
 - Auto Press 80T – 6 Nos .
 - Auto Press 110 T – 4 Nos.
 - Auto Press 25 T- 1 Nos
 - Auto Press 130 T – 1 Nos
 - Auto Press 250 T – 1 Nos
 - Auto Press 350 T-1 Nos
 - Bruderer – 1 Nos
 - Amada CNC Turret Punching Machines with 45 tool holders (Includes 3 Index Stations)- 4 Nos
 - Amada CNC Bending Machines- 5 Nos
 - CO2 Welding Station- 4 Nos
 - Projection Welding machine- 6 Nos
 - Tapping Station – 4 Nos
 - Stud Welding – 1 Nos
- **Future Expansion :-**
 - DB Assembly line for PRIMIEA project

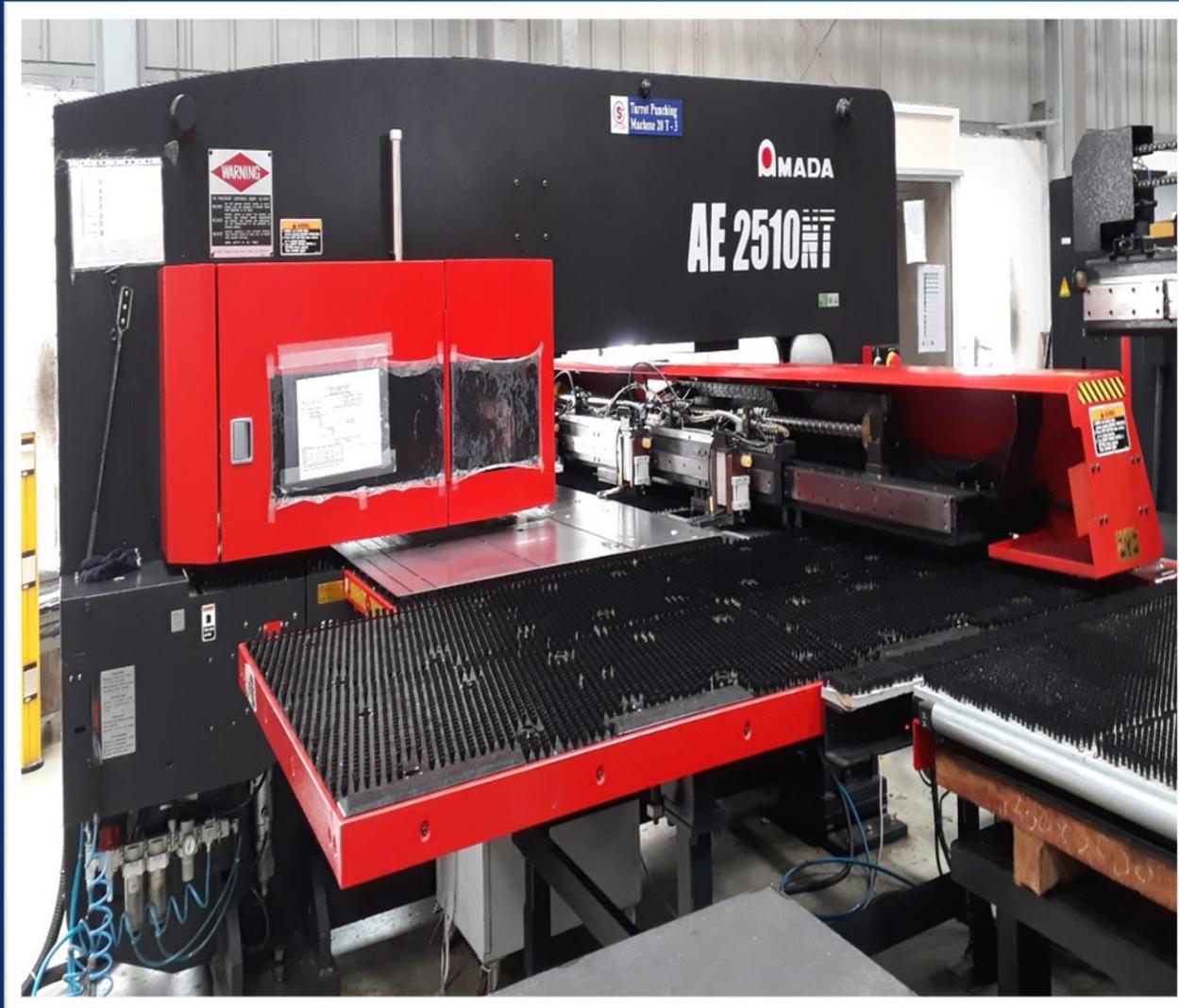
INFRASTRUCTURE – STAMPING PLANT (AUTO PRESS SHOP SEYI MACHINE)



- **Stamping Infra Structure :-**
- Equipped with Imported SEYI(Taiwan) & Indian Branded SEW Stamping Machines ranging from 25 T to 350 T.

| Infrastructure - Stamping Machine Details | | | |
|---|-----------------|---------------------------|--|
| Sr.No | Machine Details | Nos .of Machine Available | Material Processing capacity/annum in plant (MT) |
| 1 | 25 T | 1 | 6200 MT |
| 2 | 80 T | 6 | |
| 3 | 110 T | 4 | |
| 4 | 130 T | 1 | |
| 5 | 160 T | 4 | |
| 6 | 250T | 1 | |
| 7 | 350T | 1 | |
| 8 | Bruderer | 1 | |
| Total Machines | | 19 | |

Amada Turret Punching Machine



Amada Turret punching machine designed With Japanese technology capable of processing 4ft X 8ft sheets, the AE-NT series has a large capacity turret to ensure stable, high speed, high-quality processing.

Advantage-

- Amada Turret Punching M/C have high functioning speed and extreme efficiency which causes less production time, less wasted materials.
- Using the controller, the operator can quickly rotate the turret to select the different punching tool as needed without manually replace the tooling.
- **Turret Punching material consumption capacity/annum – 3000 MT**

AMADA BENDING MACHINE

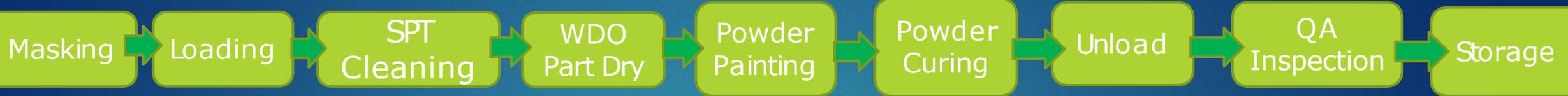


Amada Bending Machine HRB1003 designed with Japanese technology to provide precise bending results and ensure the utmost in versatility and Ease of use.

Features-

- Natural Crowning
- Higher Longitudinal accuracy by centre bend
- User friendly AMNC 3i
- Easy operation by LITE mode
- Retrofit table option
- New AFH tooling – ATC
- Offline setup for program creation by VPSS3i Bend

POWDER COATING PROCESS



- Received Material From Press Shop & Washing/Masking.
- Loading products on JIG as per WI

- Pass material through 8 different tanks
- Flue Gas blower, KOD & Degreasing Burner, 3-FUME Blower, 3-Water Rinse Pump, 2-DM Water Rinse.

- Material Passing through WDO & PCO tank.

- Unload the material .
- Quality inspection after unloading

- PCD Material Storage as per FIFO

CAPACITY - POWDER COATING PROCESS

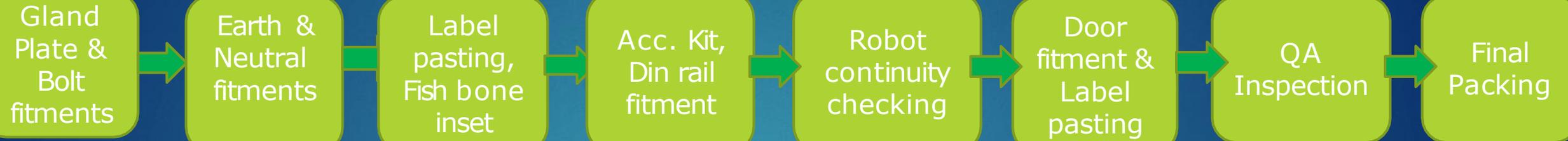


Wagner Powder Coating Booth is highly equipped with German technology with Robustness and sophisticated flow Control in combination with recovery system offers Optimal energy and material efficiency to reduce costs in the long term and help the environment

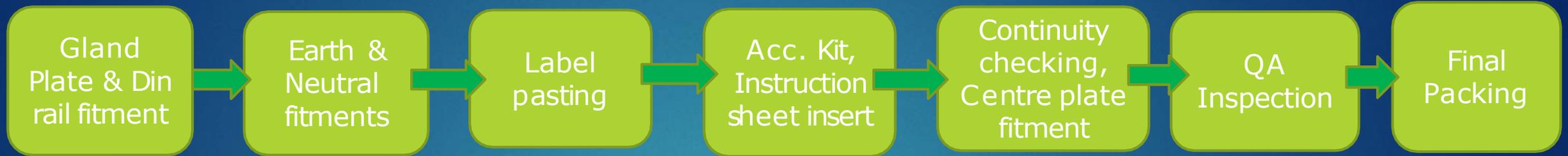
Advantage :

Total painting capacity/annum – 60000 SQ-M with Window size of 3*1.5*0.8 meter with corona Automatic Guns for powder coating booth

DISBO ASSEMBLY LINE



MIR ASSEMBLY LINE



UK RETRO ASSEMBLY LINE

Carrier, Din
rail fitment

Main neutral,
Neutral, Earth
bar fitment

Label sheet 1&2
insert, Bus bar
fitment

Cable &
Customer kit

QA
Inspection

Final
Packing



TOOL MAINTENANCE



**Good Storage facility to
all Press shop tool**

High MTBF & Low MTTR

METAL ENCLOSURES PRODUCTS



Schneider SPN DB



C & S DB



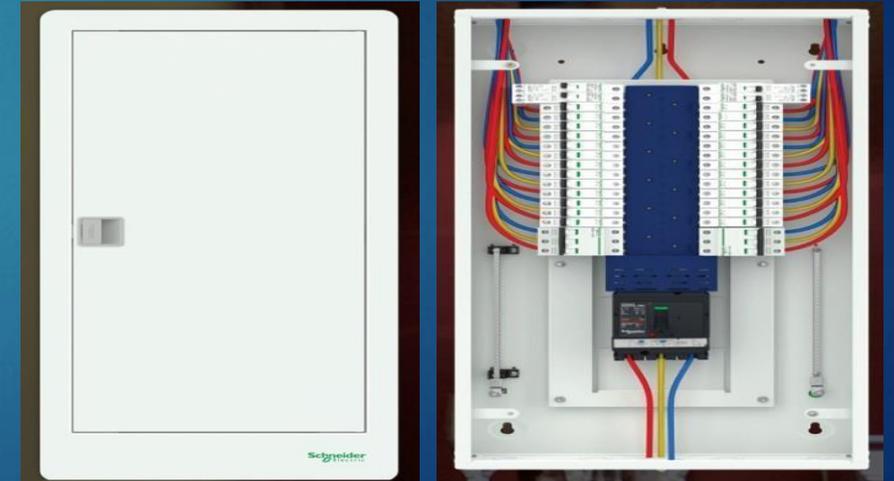
Panasonic Designer DB



Panasonic TRDB



ABB SHDB



MIR VTPN DB

Types of Metal Enclosures Products



SD : Single Door DD: Double Door

SPN : Single Phase Neutral TPN : Three
Phase Neutral VTPN : Vertical TPN

PS : Phase Selector ME – Metal
Enclosures

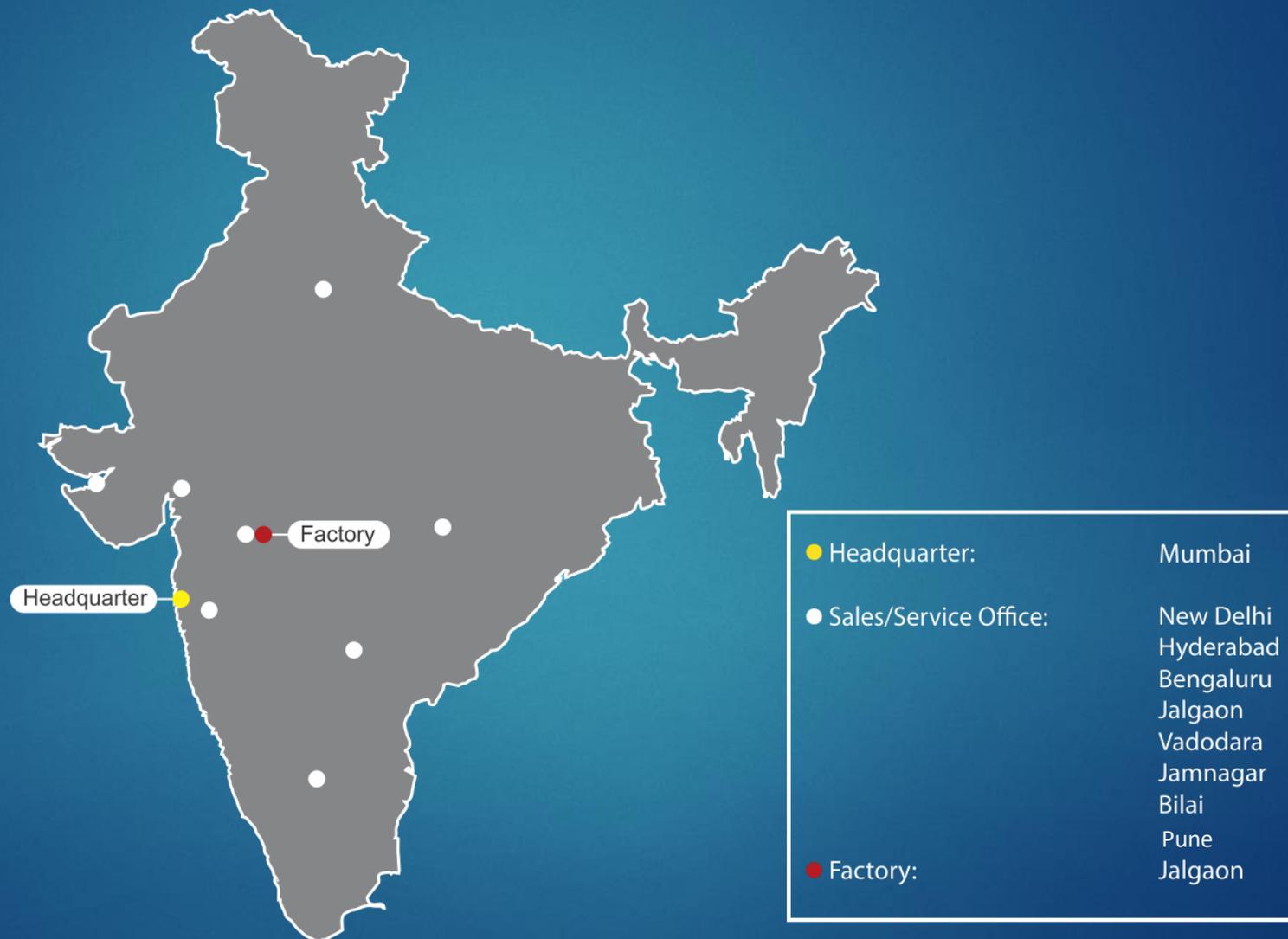
P&S – Plug and Sockets

OUR ESTEEM CUSTOMERS



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OUR WIDESPREAD LOCATIONS



CONTACT AND ADDRESS

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OVERSEAS OFFICES

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Syn-Tech Power Systems

Jamnagar:

Mass-Tech Controls Pvt. Ltd.

Chennai:

Mass-Tech Controls Pvt. Ltd.

Bengaluru:

Elma International

Bhilai:

Span Enterprises

THANK YOU