



GREEN SECURE ENERGY SYSTEMS

www.greensecureenergysystems.com

Company Profile

Green Secure Energy Systems An ISO 9001-2015 certified organization catering to many MNC's, Public sector Companies & Industries.

- Promoted by a team of qualified young technocrats having experiences in Design, Engineering, Manufacture, Stage testing and Inspection of all type panels
- Professionally experienced organization over past 10 years. Now promoted a healthy organization with an optimum blend of skill and experiences, so as to emanate highest caliber. Our commitments to strict Quality standards and timely delivery have been responsible for confidence and trust of our varied and reputed clientele.
- Our Installation base in our tenure has multiplied to a good numbers of systems cater to the needs of ISO 9000 Companies and multinational. Quality control procedures has made possible to maintain customer reputation and consistency.
- Our social responsibility counts for everyone in our eco system. We believe that we will have an impact not only on an individual but also on the economy, environment and society at large
- Our employees are an integral part of our winning team.



Company Profile

Quality Policy

Green Secure Energy Systems committed to supply the quality Electrical & Automation Control panel boards by practicing as mentioned below

- I. Enhancing customer satisfaction
- II. Leadership
- III. Involving all concerned people of the organization
- IV. Continual improvement of quality management system
- V. Mutually beneficial supplier relationships.
- VI. Our employees are an integral part of our winning team.

Approvals

Green Secure Energy Systems has been recognized by several Utilities, OEM's, ECP's, consultants..... Few Clients are mentioned below

- I. **Utilities:** TSTRANSCO, APTRANSCO, TANTRANSCO, KPTCL, KPCL, TANGEDCO, APNCDCL, APSPDCL, APEDCL, APSCDCL, TSPGCL, TSPDCL
- II. **OEM'S:** ABB, Triveni Engineers. JSW Steels Ltd.
- III. **Consultants:** Awant Garde, Aquatherm, TATA Projects.



Our Products

Panel Division.

a) MOTOR CONTROL CENTER / POWER CONTROL CENTER / MOTOR & POWER CONTROL CENTER

MCC/PCC/PMCC manufactured and supplied by us to our customers which are used to distribute power to different motor loads.



These motor loads will be fitted in different parts of the factory and MCC helps in distributing power from one place through the motor starter fitted in panel of required rating with full protection which finds wide application in different industries such as Sugar Industry, Paper Industry, Cement Industry, Food Industry, Chemical Industry, etc.

Some salient features of our Panels are

- Separate Bus bar and Cable chambers
- Sufficient space for incoming and outgoing cables.
- Door interlock (with defeat feature) to prevent accidental contact with live terminals.
- Illumination in vertical cable chamber.
- Compartmentalized design eliminates risk to maintenance personal.
- Shrouds on live incoming terminals.



Our Products

Panel Division.

b) MOT AUTOMATIC POWER FACTOR CORRECTION (APFC) CAPACITOR PANEL



Panels are the ideal solution for all power factor problems and fully able to maintain unity power factor. We design panels for industries to maintain

unity power factor in order to avoid penalty on electricity bills. Panels comprises power factor controller that accurately monitors reactive power in the power systems in order to save energy, also used to monitor the power factor of various electrical systems. The capacitors are also provided with series reactors that minimize harmonic current; otherwise can alter system voltage and current. Available in different capacity ranging from 20 KVAR to 2000 KVAR

Some salient features of our Panels are

- Middle bus bar chamber for compact sizing/top also available
- Sufficient space for incoming cables.
- Sufficient inlet air and exhaust ventilation arrangement
- Compartmentalized design eliminates risk to maintenance personal
- Shrouds on live incoming terminals.



Our Products

Panel Division.

c) CURRENT TRANSFORMER, LIGHTING ARRESTER, VOLTAGE TRANSFORMER, SURGE CAPACITOR PANELS



CTLASCPT Panels manufactured and supplied which serves the purpose of Voltage metering and Generator protection. The Current, Excitation and Voltage transformer, also Surge capacitor housed in the Panel provides safeguard against current & voltage surges. LA&SC provide minimum resistance path to the short duration high voltage & high current because of lightning or fault and the complete current flows to ground earth point through Earth bars provided with HT support insulator with required phase to phase and phase to earth clearance as per the latest standard. Provision will be made to connect the Cables or from Bus duct.

Some salient features of our Panels are

- Copper OR Aluminum bus bar material
- Voltage rating-6.6kV/11kV/15kV
- Protection class is IP:54/IP:55
- Separate cubicle for Isolated Phase Bus duct connection



Our Products

Panel Division.

d) NEUTRAL GROUNDING RESISTOR/TRANSFORMER PANELS



NGTR Panels manufactured and supplied by us serves the purpose of Steps down the Neutral side voltages of the Generator Voltage and the stepped down voltage is fed to Neutral Grounding Resistor and a ground earth terminal for bringing the voltage level of neutral bus as close as possible to zero voltage level

Some salient features of our Panels are

- Cubicle is divided into two compartments for NGT & NGR
- Protection class is IP:54 for NGT compartment & IP:33 for NGR compartment
- Incoming connection is for both Cables as well as for Bus ducts
- Suitable ventilation arrangement will be given for NGR compartment
- Single phase & Three Phase cubicle, Neutral shorting, Current transformer and Neutral Isolating switch also can be accommodated inside the panels as per the requirement



Our Products

Panel Division.

e) AC DISTRIBUTION BOARDS/DC DISTRIBUTION BOARDS/LTAC DISTRIBUTION BOARDS



- ACDB/DCDB/LTAC Panels which is made up of breaker, Isolator, Voltage and Current monitoring etc.

f) PT DISTRIBUTION BOARDS/JUNCTION BOXES



- PTDB/JUNCTOPN BOXES which is made up of breaker, Isolator, Terminal blocks for CT & PT connections, Voltage and Current monitoring etc.

Some salient features of our Panels are

- To ensure maximum protection to the sophisticated electronic equipment.
- It has provision for surge protection in the box along with fuses. It gives extra protection to the system in case of failures on load



Our Products

Panel Division.

g) GENERATOR RELAY METERING PANEL/TRANSFORMER RELAY METERING PANEL/SYNCHRONIZING PANEL/METERING PANELS



We design and manufacture control and relay panels are widely used in various Power Generating Stations. All the Protection Relays with communication Protocol's are mounted & required terminal blocks will be provided for customer interface. We use both Numerical relays and Electromechanical relays customized as per client's specific requirements. Control and relay panels to meet the needs of control, instrumentation and protection.

Some salient features of our Panels are

- Our panels are constructed using superior quality sheet steel and all the fabricated parts are thoroughly cleaned using pre-treatment process and are then coated with required shade.
- The panel doors are fully gasket for protection against dust.



Our Products

Panel Division.

h) AUTO LOAD SHARING, AUTO SYNCHRONISING & AMF PANELS



We design and manufacture AMF Control Panels for DG & EB Control. We also manufacture Auto Load Sharing, Auto Synchronizing Control Panels for Fisheries, Cement Plants and Hydraulic Industries applications



Our Products

Panel Division.

i) CONTROL DESK



We are offering a complete range of Control desk that are manufactured using the latest technology. Control desk are used to control various motors & machine on/off, remotely operated in any comfortable place or monitoring. Main MCC Panel is interlinking with Control desk.

Our panels are used for automatic machine operation. This finds wide application in the industries such as Sugar Industry, Paper Industry, Cement Industry, Food Industry, Chemical Industry, etc. these products are offered at the most competitive prices to our customers in shortest delivery timings



Our Products

Panel Division.

j) 11kV & 33kV HT METERING PANEL



HT Metering panels widely used in various Substations. This panel comprises of Current Transformer, Voltage Transformers, Wall through Bushings, Insulators & Tri-vector Meters. We can make these Panels including Load Break Switch also as per customer specific requirements.

Our panels are constructed using superior quality sheet steel and all the fabricated parts are thoroughly cleaned using pre-treatment process and are then coated with required shade. The panel doors are fully gasket for protection against dust.

Some of the salient features of our Panels are

- Separate Incoming & Outgoing compartments
- Cabling height as per latest standard
- Clearance & Seepage distance as per latest standard
- Sturdy Enclosure construction to withstand Mechanical forces
- Copper/ Aluminium bus bars as per Short time current rating
- Suitable design for Outdoor atmosphere
- Ingress Protection:55, Category-2



Our Products

Panel Division.

k) MV SEGREGATED PHASE BUSDUCT



We are offering a complete range of MV Bus ducts that are manufactured using Mild Steel/Aluminium. These bus ducts will be used between Generator and Transformer, Generator and VCB Panel. Complete accessories like Adapter boxes, Vertical /Horizontal bends, Copper/Aluminium flexibles at termination ends and at straight run, Silicagel breathers, Wall frame assembly, Space heater with thermostats, Rubber bellows for expansion at termination ends/straight run, Galvanised steel support structures.

Current rating above 2500A, we will use Aluminium channels as conductor for better current carrying capacity. Hence the skin effect will be reduced.

Some of the salient features of our Busducts are

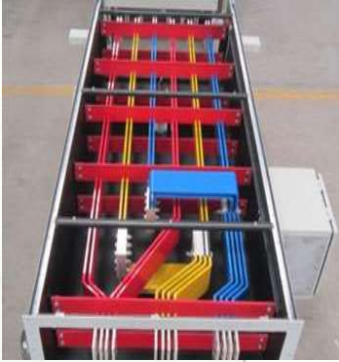
- Voltage Rating-15kV/12kV/7.2kV/3.3kV
- Current Rating-Up to 4000 Amps/SC rating-50kA
- Installation-Indoor/Outdoor/Impulse-Up to 95kVP
- Construction material-Aluminium/Mild Steel
- Busbar Material-Copper/Aluminium
- Support structure-MS Painted/Hot dip Galvanized
- Busbar types-Flat type/Channel type
- Segregation Material-AI./MS/FRP
- EPDM Rubber bellow for expansion



Our Products

Panel Division.

I) LV NON-SEGREGATED PHASE BUSDUCT



We offer complete range of LV Bus ducts that are manufactured using Mild Steel/Aluminium. These bus ducts will be used between Transformer and LV Panel, Transformer and APFC Panel



We offer complete accessories like Adapter boxes, Vertical/Horizontal bends, Copper/Aluminium flexibles at termination ends and at straight run, Silicagel breathers, Wall frame assembly, Space heater with thermostats, Rubber bellows for expansion at termination ends/straight run, Galvanised steel support structures

Some of the salient features of our Busducts are

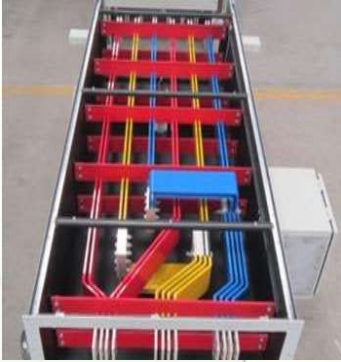
- Non Segregated Phase Bus ducts
- Voltage Rating- up to 1.1kV
- Current Rating-Up to 6300 Amps
- Short Time Current Rating-50kA/75kA/100kA
- Installation-Indoor/Outdoor
- Construction Material-Aluminium/Mild Steel
- Busbar Material-Copper/Aluminium
- Support structure-MS Painted/Hot dip Galvanized
- Busbar types-Flat type/Channel type
- EPDM Rubber bellow for expansion



Our Products

Panel Division.

I) LV NON-SEGREGATED PHASE BUSDUCT



We offer complete range of LV Bus ducts that are manufactured using Mild Steel/Aluminium. These bus ducts will be used between Transformer and LV Panel, Transformer and APFC Panel



We offer complete accessories like Adapter boxes, Vertical/Horizontal bends, Copper/Aluminium flexibles at termination ends and at straight run, Silicagel breathers, Wall frame assembly, Space heater with thermostats, Rubber bellows for expansion at termination ends/straight run, Galvanised steel support structures

Some of the salient features of our Busducts are

- Non Segregated Phase Bus ducts
- Voltage Rating- up to 1.1kV
- Current Rating-Up to 6300 Amps
- Short Time Current Rating-50kA/75kA/100kA
- Installation-Indoor/Outdoor
- Construction Material-Aluminium/Mild Steel
- Busbar Material-Copper/Aluminium
- Support structure-MS Painted/Hot dip Galvanized
- Busbar types-Flat type/Channel type
- EPDM Rubber bellow for expansion



Our Products

PED Division.



DC UPS

50-1000 A
3 Phase rectifier
battery chargers
(SCR)

Input Voltage:
Vac, 3-phase, 50/60 Hz

Output voltage:
24/48/110/220Vdc



50-2000 A
1 and 3 Phase rectifier
battery chargers
(SCR)

Input Voltage:
Vac, 3-phase, 50/60 Hz

Output voltage:
24/48/110/220Vdc



INVERTERS

3 KVA
Inverters 1 phase -DC/AC Inverters

5-200 KVA
1 and 3 Phase
DC/AC Inverters

Input Voltage:
110/125/220 Vdc

Output voltage:
115/120/230Vac
1-phase
208/400/480 Vac
3 -phase



AC UPS

5-200 KVA
3/1 and 3/3 Phase
On-line double
conversion UPS

Input Voltage:
208/400/480 Vac 3 -phase

Output voltage:
115/120/230 Vac
1-phase
208/400/480 Vac
3 -phase

Battery Voltage:
110/125/220 Vdc



**GREEN SECURE
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Our Products

PED Division.

Standard SCR Battery Chargers



DC UPS

SCR Battery Charger

Features and benefits

- Input transformer for AC-DC galvanic separation
- SCR rectifier, overvoltage, undervoltage protection for reliable operation in all mains conditions
- Soft-start for start-up overcurrent limitation
- Support all charging methods for vented/sealed lead acid batteries and Ni-Cd batteries
- Adjustable manual and automatic charging mode for maximum flexibility on operation
- Standard configurations, for cost-effective and short lead time solutions
- High personalization grade
- Front accessibility for easy maintenance
- 16-bit microprocessor control for best-in-class performance and reliability
- Digital control panel and mimic display for signals, alarms, meters and history events continuous monitoring
- Comprehensive set of communication options for total remote monitoring of equipment operation
- Small size design for easy installation and minimum space requirements (SCR Battery Charger).
- Parallel operation for redundancy requirements
- Natural cooling on most of range (SCR Battery Charger).

SCR Chargers



Main options

- AC surge protection
- Built-in battery breaker
- Timer-controlled battery charging
- Battery voltage temperature compensation
- DC earth fault monitoring and alarm
- Fan monitoring and alarm
- Associated cabinets for batteries, distribution boards, dropping cells or DC/DC chopper converters.

Extra options

- Customized input and output voltage
- 6 pulse bridge for harmonics reduction
- Additional Filter
- Dual branch redundancy (with block diode or load sharing)
- Top cable entry
- Space heaters and panel lighting
- Analogue meters and lamps on front panel
- Customisable status and alarm LED set
- Special painting and protection degree up to IP 55
- Ambient temperature up to +55 °C

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Our Products

PED Division.



Industrial Modular System

24/48/60/110/125220V DC

Green Secure Modular DC Uninterruptible Power System has been designed for industrial applications from oil & gas, power generation, utilities, water treatment, desalination to transportation, telecom, chemical industries and industrial process control.

Green Secure has been developed to with stand harsh environment and operating conditions of Industrial applications with state-of-the-art technology providing, reliable and customized system solutions with very low MTTR.

With decades of experience in industrial power solutions, Green Secure offers complete DC modular UPS systems with highly reliable, robust quality and flexible, longest design life.

Industrial Inverters

Features and benefits

- Built-in inverter transformer for DC-AC galvanic separation
- IGBT, PWM controlled inverter for high efficiency and low output THD
- Standard configurations, for cost-effective and short lead time solutions
- High personalization grade
- Front accessibility for easy maintenance
- 16-bit microprocessor control for best-in-class performance and reliability
- Digital control panel and mimic display, for signals, alarms, meters and history events continuous monitoring
- Comprehensive set of communication options for total remote monitoring of equipment operation.



NOTE: Contact us for Technical Data and product leaflet for the above.

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Our Products

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IRB Rack Mount Solution



IRB technical data	
Rating (kVA/kW)	3/2.4
DC input voltage	110 Vdc (88-160 Vdc range)
Nominal output voltage and frequency	230 Vac 50Hz
Voltage regulation	± 1% dynamic 100% load change, <5% ms recovery time
Overload capacity	150% indefinitely (4.5kVA)
Harmonic Distortion THDv	<1% linear load; <5% non-linear load
Isolation	Battery to load
Dimensions wxhxd (mm)	482,6 x 177 x 482,6 (4U in 19" rack)
Weight (kg)	27.5
Cooling	Forced ventilation
Heat dissipation @ nominal	350W
Colour	RAL7035
Protection degree (IEC60529)	IP20
Front panel	LCD display, LED mimic, keyboard
Connectivity	SPDT contact relay card, RS232 serial port, RS485 Modbus-RTU port, USB port.

Industrial UPS



- Built-in battery breaker
- Battery voltage temperature compensation
- Timer-controlled battery charging
- 12 pulse bridge for harmonics reduction
- Additional THD filters
- AC & DC earth fault monitoring and alarm
- Associated cabinets for batteries, AC & DC distribution boards and dropping cells or DC/DC chopper converters
- External battery breakers in standard or Eex-d (up to 800 A) wall-mounted box

NOTE: Contact us for Technical Data and product leaflet for the above.



Our Products

PED Division.

BATTERY MONITORING - SERIES BSM

BSM 1

- Microprocessor-based system for battery diagnostic
- Acquisition and non-volatile storage of following data:
 - Voltage measures of # 11 Blocks each composed of 5 or 6 cells
 - Current measure
 - #3 Temperature measures
- Programmable periodic diagnostic discharge
- RS-232 interface for PC data acquisition
- PC-side interface software included
- #10 Alarm relays
- Construction in 19" standard rack 2U



Remote monitoring



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Our Products

PED Division.

Special Options for DC and AC UPS Batteries

Energy Recovery Battery Discharger

- Providing a controlled discharge into the AC mains for efficiency test and load upgrade simulation.
- Discharge characteristic can be set at constant current, constant power or according to custom profiles.
- Energy recovery battery discharger is available as an option on UPS and Inverter

Battery Monitoring System

- Allowing real time prediction of lead acid and Ni-Cd batteries potential failure modes, thus reducing maintenance and replacement costs.
- The system performs string currents and temperature tests on each battery block or cell, actual capacity check and data logging. A manual battery test mode is also included. Remote access over RS485 ModBus is available as an option.



Who we are

- Green Secure is a company specialized in custom design, manufacturing and servicing of power electronics equipment for ICT, industrial, energy applications.
- Green Secure R&D department is one of the most complete regarding the different disciplines in the field of power conversion.
- Long experience in semiconductors and magnetic component design is combined with the most advanced digital regulation algorithms and microcontroller programming know-how. Green Secure has a leading position in the oil and gas market thanks to its proven customizing expertise and continuous pursuit of excellence in a state-of-the-art product. However, wide experience in several branches of power electronics such as UPS systems for data centers and inverters for renewable energy and storage, make Green Secure a leader in this technology not only for oil and gas applications.
- The latest patented three-phase solution based on its green conversion operation can guarantee the best PUE for green data centers: proof of the ongoing company commitment to innovation.
- Based in Bangalore with 12,000 Feet production space and a large full-testing area, the company can call on more than 25 years of experience.
- Green Secure has a strong global presence and is represented in all 5 continents where it can



Our Products

PED Division.



GREEN SECURE ENERGY SYSTEMS



Activate
Go to Sett



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Activate
Go to Sett

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Our Products

PED Division.

FEATURES

- ◆ Long Service Life
- ◆ Very Low - Maintenance
- ◆ Tubular Positive Plates -Excellent Corrosion resistance and Long Life
- ◆ Heavy duty Plates - Excellent Cycle Life
- ◆ Designed for regular deep cycling capabilities
- ◆ Designed to withstand partial State of charge operation (PSOC)
- ◆ Special paste formulations for better charge acceptability & Superior Recharge ability
- ◆ Special Separators - High Porosity & Low Internal Resistance
- ◆ Low rate of Self discharge
- ◆ High Ampere - Hour & Watt - Hour efficiency
- ◆ Robust, Durable & aesthetically superior PPCP Heat sealed Containers
- ◆ Heavy duty Lug type terminals - Easy connection
- ◆ Micro porous ceramic vent plugs - Free from Acid fumes

APPLICAITONS

- ◆ Solar Photo - Voltaic System
- ◆ Rural Electrification & Street Lighting
- ◆ Inverter / UPS Systems
- ◆ Wind Mills
- ◆ Hybrid Power systemes
- ◆ Non - Renewable energy systems
- ◆ Emergency Lighting installations
- ◆ Telecommunicaiton
- ◆ Offshore platform
- ◆ Railway Signalling
- ◆ Power Stations
- ◆ Navigational Aids
- ◆ Process control Systems
- ◆ Special Purpose machines

We are one of the leading Manufacturers of LMLA Flooded Type TUBULAR BATTERIES. We have our manufacturing facilities at Bangalore Karnataka, India.

Our Batteries are being manufactured in a latest sophisticated plant, to meet the stringent standards. The materials used in our Batteries are procured from the quality, reputed suppliers. These materials are inspected and tested by our QA Department in the plant. The Batteries are made by well - qualified, trained, experienced and dedicated team, to turn out excellent quality batteries, within the stipulated delivery schedule. Batteries are subjected to rigorous test by our Quality Control team in order to maintain the exact required performance.

As our Batteries are used for Solar/Inverter/UPS Applications, all the care has been taken to improve the quality of "Tubular Batteries", by using special proprietary alloyed Lead, Virgin Oxide made from our own Im Oxide Plant, High quality Polyester Tubular Bags (PT Bags) and with an excellent processing techniques. Also, we are using special purpose Ceramic Vent Plug / Float Vent Plug to improve topping interval.

TUBULAR BATTERIES FOR SOLAR PHOTO VOLTAIC APPLICATION	TUBULAR BATTERIES FOR INVERTER / UPS SYSTEM	2V STATIONARY TUBULAR CELLS -
Battery Confirms to: IS:13369-1992 and IEC 61427-2005	Battery Confirms to: IS: 13369-1992	Battery Confirms to: IS: 1651-1991
RANGE:	RANGE:	RANGE:
12V - 40 Ah	12V - 100 Ah	2V - 100 Ah
12V - 60 Ah	12V - 120 Ah	2V - 200 Ah
12V - 80 Ah	12V - 150 Ah	2V - 400 Ah
12V - 100 Ah	12V - 180 Ah	2V - 600 Ah
12V - 120 Ah	12V - 200 Ah	2V - 800 Ah
12V - 150 Ah	12V - 220 Ah	2V - 1000 Ah
12V - 180 Ah	12V - 250 Ah	
12V - 200 Ah		

* As per Customer's requirement, other AH Capacities can be Supplied

Selection of Battery Capacity

$$\text{Ah of Battery} = \frac{\text{UPS Capacity} \times \text{Backup time required}}{\text{Battery Voltage of UPS} \times \text{Efficiency of Inverter of UPS} \times \text{D.R.F.}}$$

D.R.F. (Derating Factor) of Battery (Approx)

Discharge Time (Back-up Time)	Hours					Minutes			
	10	5	4	3	2	1	30	15	6
% Of Capacity Of Battery (10hr Rate)	100	63.3	78.2	71.7	63.3	50	38	30	22
End Voltage Per Cell	1.8	1.8	1.8	1.8	1.75	1.75	1.75	1.7	1.7

#9, Sri Lakshmi Industrial Estate, Thigalarapalya Main Road, Peenya 2nd Stage, Bangalore - 560058, Ph : 080-43748343

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www.greensecureenergysystems.com

GREEN SECURE
ENERGY SYSTEMS

www.greensecureenergysystems.com



ISO Certificate



CERTIFICATE OF REGISTRATION

*This is to certify that the
Quality Management System of*

GREEN SECURE ENERGY SYSTEM

**#9, SRI LAKSHMI INDUSTRIAL ESTATE, THINGALARAPALYA
MAIN ROAD, PEENYA 2ND STAGE, BANGALORE-560058, INDIA**

*has been assessed and approved
in accordance with the guidelines of*

ISO 9001:2015

for the following areas

DESIGN, DEVELOPMENT, MANUFACTURING, SALES AND SERVICE OF BATTERY CHARGERS,
INDUSTRIAL UPS, LOW VOLTAGE SWITCH GEAR CONTROL PANELS, INVERTERS, CONVERTERS,
RECTIFIERS, POWER SUPPLIES, SWITCH TRIPPING UNITS, STARTER PANELS, DISTRIBUTION &
METERING BOARDS AND TRADING OF ALL KIND OF BATTERIES,
DG SETS AND SOLAR POWER SYSTEMS

Certified Locations: **#9, SRI LAKSHMI INDUSTRIAL ESTATE, THINGALARAPALYA
MAIN ROAD, PEENYA 2ND STAGE, BANGALORE-560058, INDIA**

Validity of this certificate can be verified at www.bmscert.org/verify

Q-210503004
Certificate No.

Date of Certification: 22nd March 2021
Date of 1st Surveillance: 21st March 2022
Date of 2nd Surveillance: 21st March 2023
Recertification Due: 21st March 2024


Director



317, Aggarwal Modern Bazar, C-33, Lawrence Road, Delhi – 35, India
Ph. 91-9310501017, +91-9310131005, Website: www.bmscert.org, email : info@bmscert.org

**GREEN SECURE
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Ingress Protection Test Certificate

CENTRAL POWER RESEARCH INSTITUTE



CPRI

TEST REPORT

Test Report Number : CPRI/LREATD20T0006 Date: 13 January 2020

Name and Address of the Customer : M/s. Green Secure Energy Systems,
#9 Sri Lakshmi Industrial Estate, Thigalarapalya
Main road, Peenya 2nd Stage, Bangalore – 560 058.

Name and Address of the Manufacturer : M/s. Green Secure Energy Systems,
#9 Sri Lakshmi Industrial Estate, Thigalarapalya
Main road, Peenya 2nd Stage, Bangalore – 560 058.

Particulars of sample tested : Low Voltage Outdoor Panel
Type : Outdoor
Description of test sample : Refer Sheet 2 of 5
Serial Number : GSS01200795
Number of samples tested : One
Date(s) of Test(s) : 08 January 2020 and 09 January 2020

CPRI Sample code Number(s) : EATDIP20S0002
Particulars of tests conducted : Refer Sheet 3 of 5
Test in accordance with Standard/Specification : IS/IEC 60529:2001 RA 2019.

Sampling Plan : Not Applicable
Customer's Requirement : 1. Visual observation for entry of dust (IP 5X) Category 2 and
water (IP X5).

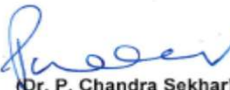
Deviations if any : Nil

Name of the witnessing persons
Customers representative : Mr. Jagadeeswaran. L, Application Engineer.
Other than customer's representatives : None
Test subcontracted with address of the laboratory : None

Documents constituting this report (in words)
Number of Sheets : Five
Number of Oscillogram(s) : Nil
Number of Graph(s) : Nil
Number of Photograph(s) : Nil
Number of Test Circuit Diagram(s) : Nil
Number of Drawing(s) : Two


(D. Venkatesh)
Test Engineer




(Dr. P. Chandra Sekhar)
Head of Division
Approved by

ULR-TC5452200EADT0006F
Discipline: Electrical Testing
Group: Environmental Test

ELECTRICAL APPLIANCES TECHNOLOGY DIVISION
P.B.NO.8066, SADASHIVANAGAR P.O
PROF.SIR.C.V.RAMAN ROAD, BANGALORE - 560 080, INDIA
Tele: +91 (0) 80-2207 2321

Sheet 1 of 5



Contact us

For more information please contact:

Green Secure Energy Systems
9, Sri Lakshmi Industrial Estate,
Thigarapalya Main Road,
Near Peenya 2 Stage,
Bengaluru - 560 058.

Mr. Jothiswar R

Position: CEO

Mobile: +91 95024 65999

E-Mail: greensecuresystems@gmail.com

Mr. Bhaskar B

Manager - Panel division

Mobile: +91 94816 49003 / +91 97420 41888

E-Mail: projects@greensecureenergysystems.com

www.greensecureenergysystems.com

Disclaimer

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