



G1 POWER ENERGY PRODUCTS



RUGGED PC SYSTEMS

RUGGED TRUE ONLINE UPS

TRUE ONLINE UPS RANGE: 1KVA to 500 KVA

INVERTORS FOR ELEVATORS 5 KVA ONWARDS

BATTERY CHARGERS

DC POWER PACK DCCPI 10 -/DCCP30 - 3.3

PCU POWER CONDITIONING UNIT (SOLAR INVERTER)

HIGH FREQUENCY ONLINE UPS 1KVA, 2KVA & 3KVA

ULTRA ISOLATION TRANSFORMER

SOLAR GRID TIE INVERTERS

SOLAR HOME LIGHTING SYSTEM

SERVO CONTROLLED VOLTAGE STABILIZER UPTO 2000 KVA

POWER LED LIGHTS

ADVANCED BATTERY MONITORING SYSTEM

ZERO DROP SOLAR CHARGERS (MPPT)



RUGGED PC SYSTEMS

Turnkey Solution Provider for

Industrial Computers., On-Board Computer and simulators, RF Wireless solution, High performance systems, ATR Chassis, cPCI and VME Systems, Rugged Power supplies, Robotic and Motion control hardware, Machine Vision, Medical Grade Equipment, Access Control Systems, Digibus, Add-On Input and output cards.

- Embedded systems.
- Simulators (BMP, Tangushka etc.)
- Rugged Laptops, Tablet PC.
- Plasma Display.
- 3D Monitors.
- Printer, Plotter.
- Industrial grade system.
- Simulation Box.
- Simulator for all terrain vehicle.
- Fabrication of Console and Housing units.
- UGV.
- Projects.
- Software Development and tools.



RUGGED LAPTOP

RUGGED IN VEHICLE PC

OPERATOR CONSOLE:
PRS-OC-XX-P-G

RUGGED TRUE ONLINE UPS

The G1-Robusto Rugged UPS are highly reliable power sources specifically designed to provide years of service in severe shock, vibration, humidity, EMI environments and can also be customised for unique applications.

APPLICATIONS:

- Shelters • HMMWVs • Tactical Systems
- Mobile Systems • Shipboard Power • Ground Support
- Servers • Transit Cases • MIL-STD-810 • MIL-STD-461 • MIL-STD-901
- MIL-STD-1399 • MIL-STD-1472 • MILSTD-167
- Communications Systems. • Heavy Duty Industrial Applications.

Features:

- Ultra Light Weight.
- Compact 3U - 4U chassis.
- SNMP communications.
- Power Factor Corrected Universal Input 240VAC single phase.
- Capacity: 1 KVA, 2 KVA, 3 KVA, 5 KVA, 7.5 KVA, 10 KVA & 20 KVA.



TRUE ONLINE UPS RANGE: 1KVA TO 500 KVA



True Online UPS/SFC

Range:- 1KVA-10 KVA (1Ph-1Ph)
10KVA-30 KVA (3Ph-1Ph)
15KVA-500 KVA (3Ph-3Ph)

FEATURES:

- Wide range of Input Supply Voltage to suit Indian conditions.
- Custom built design is possible as per user specifications.
- Latest Technology.
- Compact size.
- High Performance; High Efficiency with near unity power factor.
- Excellent Voltage Regulation and Transient Response.
- Comprehensive and User friendly LCD Display with Mimic.
- Support all types of Battery Systems.
- Extended Run Time Facility.
- Diesel Gen set Compatible.
- Optional Intelligent Computer Interface.
- Optional Auto By-pass facility.



HIGH FREQUENCY ONLINE UPS 1KVA, 2KVA & 3KVA

FEATURES:

- Double conversion True online technology.
- Digital Signal Processor (DSP).
- With IGBT in converter section.
- Large LCD display.
- High Efficiency >93%.
- High Input Power Factor > 0.99.
- Wide Input Voltage Range, 120V onwards.
- Full Protection Function.
- Intelligent Rs 232 Communication Port.
- External Battery for backup time. (Optional).

DC POWER PACK DCCP 110-/DCCP 30-3.3

FEATURES:

- State of Art Technology.
- Wide range of AC input voltage.
- Zero change over on battery.
- Annunciations: Like short circuits/overload/battery low.
- Battery Backup: Inbuilt available.
- Natural Cooling.
- Duty Cycle: 100% continuous.
- Models: 30V DC/3.3 amps - 110V DC/1 amps.
- Highly Efficient and Reliable with Compact Design.
- Applications: HT/LT Panels. PLC Control Panels.



(PCU) POWER CONDITIONING UNIT (SOLAR INVERTER)

Features:

- LCD/LED display.
- Micro Controller based true MPPT design which follows IV curve.
- True MPPT design with current boosting.
- RS 232 Interface (optional).
- No Load: Power OFF (optional).
- Capacity: 500 W to 100 KW.
- Value for money.
- Synchronisation with mains supply.



ADVANCED BATTERY MONITORING SYSTEM

FEATURES:

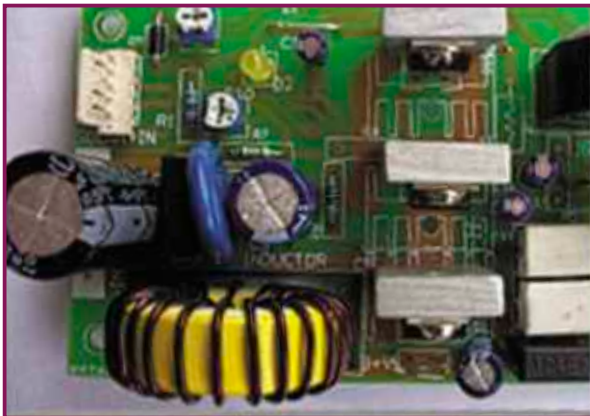
- Micro Controller based.
- Auto Monitoring of Individual Battery Voltage / Cells.
- Can measure 2 V / 12 V batteries.
- Available in models: 2 V X maximum 72 number of cells. (12V / 24V / 36V / 48V / 72V / 96V / 120V / 144V).
- Vandalization.
- Communication through Ethernet port with our protocol.
- Monitors room temperatures, battery enclosure temperatures etc.
- Events for six months can be logged.
- Plug and Play installation.
- Applications: ATM Machines / Battery manufacturers.

ALSO AVAILABLE INTELLIGENT DATA MONITOR DEVICE (IDMD)
For process Industries / Telecon applications / Power plants.

- 24 X 7 monitoring of AC, DC energy and other parameters.
- Easy data retrieving from site.
- Alert and Emergency message reporting directly from site.
- Data acquisition, Data History & Reporting.



ZERO DROP SOLAR CHARGERS (MPPT)



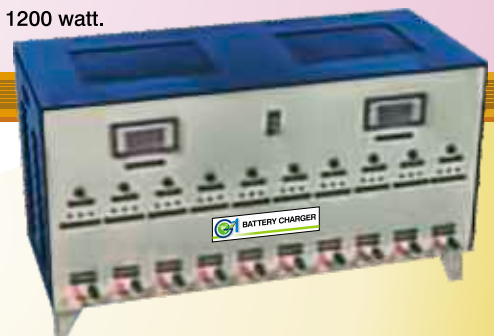
FEATURES :

- Zero Drop solar charger with maximum current upto 20Amps.
- Automatic and manual inbuilt mains charger disable and enable.
- Auto priority logic to charge from both Mains and solar simultaneously for very low battery condition and to charge battery quickly.
- Maximum optimization:(by making the Inverter to work forcefully and discharge the battery, if the battery is full and again restart the solar charger at a set Battery voltage) in this method maximum solar energy is utilized.
- No load sleep features: if the load is less than 5W the inverter will go to automatic sleep.
- Character display indicating solar charger ON, charger OFF.
- Nominal maximum solar input:- 12 volt 300W, 24 volt 600 watt, 36 volt 900 watt, 48 volt 1200 watt.
- Efficiency: approx: 97%

BATTERY CHARGERS

FEATURES:

- Input: 3 phase / Single phase protection.
- Auto / Manual Float - Boost setting.
- Thyristor / IGBT PWM Technology.
- Provision of additional DC feeder for DCDB.
- Industrial Grade.
- Less DC Ripple.
- Isolated Output - No shocks.
- Highly Efficient and Reliable.
- Easy to Install and operate.
- Available from 5 Amp to 200 Amp.
- Voltage from 12 V to 400 VDC.



POWER LED LIGHTS

FEATURES:

- Robust.
- Energy Saving, High Luminare Efficiency.
- Easy to install.
- Long Life 50000 + hrs.
- Environment Friendly - Green Energy.
- High Shock / Vibration Resistant.
- Practically No Maintenance.
- No Infrared or UV Radiation.
- Constant Light Output irrespective of input Voltage Variation.
- Useful for Solar and Wind Energy Application.

APPLICATION AREAS:

- Street Lights.
- Focus Lights.
- Hoarding Lights.
- Interior Lights.
- Decorative Lights.
- Auditorium walkway lighting.
- Backlighting for signage letters.



Available in various sizes and ratings from 1 watt to 48 watts.



SERVO CONTROLLED VOLTAGE STABILIZER UPTO 2000 KVA



Applications:

- Computer Systems.
- Communication Equipment.
- Electro Medical and Laboratory Instruments.
- CNC Machines.
- Air Conditioning Systems.
- Paper Copiers and Office Automation Products:
- Radars and other Equipments.
- Lifts and Elevators.
- Cathlab.
- Motors And Compressors.
- Operation Theaters.
- Textile Machines.
- Packaging Machines.
- Garment Industries.
- Banking Terminals.
- Chemical and R&d Laboratories.
- Defence and Nuclear Facilities.
- Machines Tools and Robotics.

FEATURES:

- Output voltage sensing for voltage correction & for U/V & O/V Trip.
- Overvoltage & undervoltage trip by means of contactor/ relay's.
- Short circuit & overload protection by means of MCB/Fuse/MCCB.
- Adjustment: Output voltages adjustment of $\pm 5V$ /Phase will be provided by means of potentiometer on front plate.
- Controls: Auto/manual incase of auto mode failure, you can set output voltage through manual mode.
- SCVS Available for any Input Range and any Output voltage in air cooled version upto 500 KVA and oil cooled version upto 2000 KVA.
- SCVS Available for 3 dia/3 wire IN and 3 dia 4 wire OUT (This helps to adopt SCVS at locations where good neutral is not available or neutral related problems are in systems).
- Models available with Three phase / 3 wire Input and Single phase Output. (Isolated or Unisolated).
- Voltmeter with selector switch to see input & output voltages.
- Out door application models available in air cooled / oil cooled versions (IP 43/IP 54 construction).
- Highly Efficient and Reliable.

ULTRA ISOLATION TRANSFORMER

FEATURES:

- Protects sensitive equipments from electrical noisy environment.
- Reduces Transverse noise.
- Common mode noise controlled to less than or equal to 110 dB. The same is not observed with ordinary isolation transformer.
- Ultra Isolation Transformer protects and suppresses output from surges, spikes, transients, noise etc.
- For input and output electrostatic shielding is provided.
- Galvanic Isolation free from all types of noises, spikes and surges.
- DC Isolation.

Applications:

- Computer load.
- Medical Equipments
- Telecom equipments
- measuring Instruments
- Audio/Video Recording Instruments
- Digital communication system.



INVERTERS FOR ELEVATORS 5 KVA ONWARDS

FEATURES:

- Single Phase & Three Phase Models.
- Using Advanced Micro-controller.
- IGBT / MOSFET Technology.
- User friendly operations with elevator UP - DOWN Counter.
- High frequency PWM design.
- Inverter mode availability as per user requirement.

- Compact sizes.
- True Sine Wave output.
- Easy to Install and Operate.
- Extended battery backups possible.
- In built manual bypass switch arrangement.
- Optional Battery Reverse Protection.
- Output Short Circuit Protection.

SOLAR HOME LIGHTING SYSTEM

FEATURES:

- Technology PWM Digital Signal Process/ Microcontroller based.
- PWM Battery Charger.
- Boon for Remote Areas indoor illumination.
- Boon for yet Un-electrified villages.
- Low cost Solution for village Home lighting.
- High Frequency DC to AC inverter circuits.
- High Efficiency and proven reliability.
- Easy to Install and operate. Plug & Play type use.
- Simpler user friendly Front Panel Display.
- All components including battery, Housed in High Quality Fibre /Powder coated metal enclosure.
- Available with dusk to dawn features.
- Wall Mounting and table type.
- Available in different lamp wattages and models. Two lights and more.
- More Light Output and long service life to the CFL lamps.
- Compact Size and cost effective.
- Available in charging current ratings of 2 amp, 5 amp, 10 amp, 20 amp etc.



SOLAR GRID TIE INVERTERS

FEATURES:

- Maximum Reliability.
- Easy and Quick Installation.
- Informative display provided for monitoring all system functions.
- High Frequency Transformer Technology offers maximum output in minimum space.
- The Intelligent module process optimises yields.
- The mix concept increases energy yields in the part load area.
- The components used offer a reliable and simple visualisation and monitoring.



G1 ENERGY SOLUTIONS PRIVATE LIMITED

MANUFACTURER & SUPPLIERS OF POWER ENERGY PRODUCTS & CUSTOMISED DESIGNED PRODUCTS

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DETAILED TECHNICAL DATA SHEETS OF ABOVE PRODUCTS AVAILABLE ON REQUEST

DUE TO OUR CONTINUOUS ENDEAVOUR TO GIVE YOU THE BEST, THE MODELS, DESIGNS AND SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.