It is a great privilege for me as a Chairman of FORTUNER GROUP, to be at the front end of this global high tech dynamic Company. Originally established to cater for the requirements of the Solar, Power backup and LED lighting industry with the core strength of Research & Development, product engineering and vast experience of product manufacturing.

We understand our globally customer’s and market requirements of Solar, Power backup and Energy efficient LED lighting products. Our main focuses are on new products developments, reliability improvement with the utilization of new technology and latest manufacturing techniques. We are committed to comply with international safety, environment and quality standard all the time.

We believe in high quality products and support to maintain the high level of confidence and trust by our valuable customers and business partners. On behalf of high quality products, trust and support we have strong presence in more than 30 Countries.

FORTUNER team are fully committed to ensure that our esteemed globally customer’s demands with meet in a timely fashion and that’s our Principals to satisfied them with the high level of commitments to support their best interests in this ever changing environment.

Our People will continue to be the driving force behind our success and growth. We believe that the future of our group depends on the way in cares for people, our respected clients, and business partners.

I look forward to your continued trust and support as we at FORTUNER strive to be a reliable Solar, Power backup and Energy efficient solutions provider to meet and exceed the expectations and demands of our customers’
COMPANY PROFILE

FORTUNER is a globally trusted brand of Solar, Power backup and LED lighting products. FORTUNER group established in 2006, with the headquarter in NCR Delhi INDIA, FORTUNER is a professional hi-tech company specialized in Power Backup, Solar Power, VRLA Solar Battery, manufacturing, sales and service. We are leading OEM of LEDS and Power backup products for more than 20 well known National & International brands. We have in-house R&D setup with highly qualified and experienced professional’s team. Our State-of-the-art automatic manufacturing Plants equipped with Hi-Tech Automatic Machines. Some of them are SMT, ICT and Automatic Assembly Lines etc. We are committed to comply with International safety, environment and quality standard all the time.

Our comprehensive product lines include: Power inverter, solar inverter PWM / MPPT, solar charge controller PWM / MPPT, Solar water pump controller, Solar grid tie solutions, Solar LED Street light, AC LED Street light, LED bulbs, LED Tubes, Power lights for domestic and industrial, Solar batteries with all accessories. Our products comply with Worldwide standards like ISO, BIS, TUV, IEC, MNRE, RETS, SGS, BV and SONCAP.

We have strong market presence in more than 30 countries globally. We are also having our partners, service centers, and service engineer in more than 15 countries throughout Africa, Middle East, Asia pacific, and Latin America region. We conduct training on product, technology awareness program periodically to enhance the knowledge and updated solutions for our globally partners.

We have good presence throughout all major cities of INDIA with more than 50 satisfied channel partners. We support and guide our entire partners in solar project designing, installation, Load & backup calculations, customized solutions for solar and energy saving products.
Our Mission:

FORTUNER shall at all times strive to achieve 100% customer delight by offering products and services with the using of latest technology. Zero defect manufacturing process with the latest manufacturing techniques, that provide protection, safety, comfort & peace of mind. Reliable performance, rugged construction, imaginative engineering & extensive pre-testing shall be the basic criteria for all products design & manufacturing.

We are constantly upgrading technologies and quality systems to improve our products extremely user friendly with lot of updated latest features and functions.

Our Vision:

Our vision is to have a Company offering zero defects, rugged and reliable products with strong service support that satisfies customer needs of Power, Energy efficient solutions for user & service provider. We strive to upgrade our products technology and resource skills with training programs dedicated to meet deadlines of quality customer commitment & technology upgradation.

Company Philosophy:

FORTUNER is a group of young, dynamic and experienced techno commercial peoples, who believe life can change with technology revolutions. Group is committed to provide clean & reliable power to all people in developing countries.

More than 80% of the people in developing countries do not have access to the public electricity grids or limited availability. We believe that access to electric energy with all its advantages for health, education, communication and individual fulfillment is a basic right of every human.

In order to achieve this in a way that doesn’t destroy our planet, this access to electric energy needs to be based on clean & renewable energies. We consider our customers as our friends and partners with who want to achieve the goal of clean energy provide to all humans in the long term.

Smart solutions, commitments, with a strong service support our business style.
Fortuner Solar Home UPS with inbuilt zero drop Solar charger is specially designed for solar applications.

These Single Phase and Three Phase Solar Home UPS are having high conversion and user friendly selectable HYBRID / PCU function, which ensure maximum utilization of solar power according to user requirements.

Battery type selection (SMF / TUBULAR) feature make our inverter compatible with any type of the Battery. This function enhances the battery life and power backup.

Fortuner Solar inverter can be used as an UPS for Computer application or normal Inverter for home appliances. It can charge battery using the Grid Power also.

**Features:**

- **DSP based control guarantees high Reliability & Fast processing**
- **User can set Solar Power Utilization (HYBRID / PCU mode) according to the requirement.**
- **Extra Power & longer backup with the same Battery as compare to other low efficiency inverter.**
- **LCD Display will display all Inverter parameters like: Battery, Mains Input and Output, Charging Current & Load Power parameters, which make inverter more user friendly.**
- **Durable Design which can sustain all type of the Power fluctuations and fully protect the connected equipments.**
- **TUBULAR / SMF, to Enhance the battery Life & Backup**
- **Intelligent Power full Grid Charging which Charges the Battery fast in short time duration.**
- **Unique onsite parameter setting features provide the flexibility to change the UPS Parameter as per the site condition.**
- **Sine wave inverters gives the same current which you get from power grid, in comparison to square wave inverters and Sine Wave protect and give longer life to all of your Home appliances and sensitive electronic devices.**
- **No Need to use additional UPS for Computer, User can set UPS or INVERTER mode operation as per the requirement.**
# Technical Specifications

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Battery Voltage</td>
<td>12V</td>
<td>24V</td>
<td>48V</td>
<td>96V</td>
<td>120V, 180V</td>
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<td>Technology</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Input/Output Phase</td>
<td>Single Phase</td>
<td></td>
<td></td>
<td>Three Phase</td>
<td></td>
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<td>Output Voltage on Inverter Mode</td>
<td>220 ± 2%</td>
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<td>220 ± 2% Per Phase</td>
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<td>50Hz ± 0.1Hz</td>
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<td></td>
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<td>Changeover Time UPS Mode</td>
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<td>Changeover Time Mains Mode</td>
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<td></td>
<td>&lt;40 ms</td>
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<td>Changeover Mains to UPS and UPS to Mains</td>
<td>Automatic</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Output Waveform on Backup Mode</td>
<td>Pure Sine Wave</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>THD</td>
<td>&lt;3% (On Resistive/Linear Load)</td>
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<td>Efficiency*</td>
<td>&gt;80%</td>
<td></td>
<td></td>
<td>&gt;85%</td>
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<td>Charger</td>
<td>CCCV Charger</td>
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<td>Charging Current</td>
<td>Up to 15Amp*</td>
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<td></td>
<td>Up to 20Amp*</td>
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<td>Surge Load Capacity</td>
<td>300%</td>
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<td></td>
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<td>Input Voltage (UPS)</td>
<td>170-260+/-10V</td>
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<td>Input Voltage (INV)</td>
<td>100-290+/-10V</td>
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<td>160-260+/-10V</td>
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<tr>
<td>Output Frequency on Mains Mode</td>
<td>Same as Input</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>SOLAR CHARGER*</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>System Battery Voltage</td>
<td>12V</td>
<td>24V</td>
<td>48V</td>
<td>96V</td>
<td>180V/240V</td>
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<tr>
<td>Maximum Connected Panel Array VOC</td>
<td>30V</td>
<td>50V</td>
<td>90V</td>
<td>180V</td>
<td>300/400V</td>
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<td>Maximum Panel Current</td>
<td>20/40Amps.</td>
<td>20/40Amps.</td>
<td>20/40Amps.</td>
<td>20/40Amps.</td>
<td>20/40Amps.</td>
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<tr>
<td>Suggested Solar Panel Watt Power*</td>
<td>300/600</td>
<td>600/1200</td>
<td>1200/2400</td>
<td>2400/4800</td>
<td>As Per Battery Voltage &amp; System Requirement</td>
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<tr>
<td>DISPLAY, PROTECTIONS AND INDICATIONS</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Display</td>
<td>16x2 Alpha Numeric LCD Display with LED Indications</td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td>Display Parameters</td>
<td>Output Power (Watt), Mains AC Voltage, Output AC Voltage, Temperature (Deg C), Battery Voltage, Charging (Amp)</td>
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<td></td>
<td></td>
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<tr>
<td>Protections with Buzzer Indications</td>
<td>Low Battery, Overload, Short Circuit, Over Temperature</td>
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<td></td>
<td></td>
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<tr>
<td>Auto Reset Features</td>
<td>Yes</td>
<td></td>
<td></td>
<td></td>
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</table>

**APPLICATIONS**

- Telecom
- UPS
- Emergency lighting
- Security
- Utility
- Railways
- Photovoltaic
- Universal
Fortuner Solar UPS with inbuilt MPPT Solar charger is specially designed for maximum utilization of Solar Power. High efficiency MPPT charger design ensures 20-30% more solar energy harvest by using this Inverter as compared to other topology Inverter with the same panel capacity array. Wide Solar input voltage range makes our inverter compatible without Vmp limitation of solar panel.

Fortuner MPPT Inverter have dual LCD display which shows inverter and solar charger parameters separately. Real-time solar parameters can monitor in a single view. We are providing flexible parameters setting features with our inverters; User can set all parameters according to their requirements. All Single Phase and Three Phase Solar MPPT UPS are having selectable HYBRID / PCU function, which ensures maximum utilization of solar power according to user requirements.

Battery type selection (SMF / TUBULAR) feature make our inverter compatible with any Battery. This function enhances the battery life and backup.

- **DSP based control guarantees high Reliability & Fast processing**
- **User can set Solar Power Utilization (HYBRID / PCU mode) according to the requirement.**
- **Extra Power & longer backup with the same Battery as compared to other low efficiency Inverter.**
- **LCD Display will display all Inverter parameters like: Battery, Mains Input and Output, Charging Current & Load Power parameters, which make inverter more user friendly.**
- **Durable Design which can sustain all type of the Power fluctuations and fully protect the connected equipments.**
- **TUBULAR / SMF, to Enhance the battery Life & Backup**
- **Intelligent Power full Grid Charging which Charges the Battery fast in short time duration.**
- **Unique onsite parameter setting features provide the flexibility to change the UPS Parameter as per the site condition.**
- **Sine wave inverters gives the same current which you get from power grid, in comparison to square wave inverters and Sine Wave protect and give longer life to all of your Home appliances and sensitive electronic devices.**
- **No Need to use additional UPS for Computer, User can set UPS or INVERTER mode operation as per the requirement.**
## Technical Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>MPPT 650</th>
<th>MPPT 850</th>
<th>MPPT 1000</th>
<th>MPPT 1500</th>
<th>MPPT 2000</th>
<th>MPPT 3000</th>
<th>MPPT 5000</th>
<th>MPPT 7500</th>
<th>MPPT 10000</th>
<th>MPPT 15000</th>
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<tbody>
<tr>
<td>Series</td>
<td>Fusion MPPT</td>
<td>Platinum MPPT</td>
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<td></td>
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<td></td>
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</tr>
<tr>
<td>Battery Voltage</td>
<td>12V</td>
<td>24V</td>
<td>48V</td>
<td>96V</td>
<td>120V</td>
<td>150V</td>
<td>240V</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Technology</td>
<td>DSP Based Full Bridge with MPPT Technology</td>
<td>Single Phase</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Power Device</td>
<td>MOSFET</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### INVERTER / UPS

- **Output Voltage on Inverter Mode**: 220 ± 5%
- **Output Frequency on Inverter Mode**: 50Hz ± 0.5Hz
- **Changeover Time on Ups Mode**: < 10ms
- **Change over Time on Normal Mode**: < 30ms
- **Change over Mains to UPS and UPS to Mains**: Automatic
- **Output Waveform on Backup Mode**: Pure Sine Wave
- **THD**: < 3%
- **Charger**: Solar + Grid with Solar Priority*
- **Inverter Overload**: > 100%
- **Surge Load Capacity**: 300%
- **Input Voltage (UPS)**: 160-260V
- **Input Voltage (INV)**: 100-290V
- **Output Voltage on Mains Mode**: Same as Input
- **Output Frequency on Mains Mode**: Same as Input

### SOLAR CHARGER

<table>
<thead>
<tr>
<th>Topology</th>
<th>MPPT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Connected Panel Array Power (W)</td>
<td>300</td>
</tr>
<tr>
<td>Maximum Connected Panel Array Voc (V)</td>
<td>35</td>
</tr>
<tr>
<td>Recommended Panel Array Vmp (V)</td>
<td>18-30</td>
</tr>
</tbody>
</table>

### PROTECTIONS AND INDICATIONS

- **At Respective Status/Fault Conditions**: Alpha Numeric Dual LCD and LED Indications
- **Parameters LCD Inverter UPS**: Output Power (Watt), Mains Voltage, Output Voltage, Temperature (Deg C), Battery Voltage
- **Parameters LCD MPPT**: Solar Panel Input Voltage (VP), Solar Panel Input Current (IP), Battery Voltage (VB), Battery Current (IB)
- **Protocols and Buzzer Indications**: Low Battery, Overload, Short Circuit, Over Temperature, Solar Panel Reverse
- **PROTECTIONS AND INDICATIONS**: Solar: PV Voltage, PV Current, Instantaneous Power, Cumulative Power Grid; Grid Voltage, Grid Current, Instantaneous Power, Cumulative Power Battery: Voltage, Charging Current, Discharging Current, Charging AH, Discharging AH, Battery Status Bar Graph

### APPLICATIONS

- **Telecom**
- **UPS**
- **Emergency lighting**
- **Security**
- **Utility**
- **Railways**
- **Photovoltaic**
- **Universal**
SOLAR CHARGE CONTROLLER

- Battery Selection
- LCD Display
- Wide Voltage Battery range (12V-360V Battery Bank)
- High Efficiency
- Intelligent Maximum Power Tracking
- Wide PV input range
- Automatic Temperature Compensation
- Overload, Short Circuit Protection
- Solar & Load Current Parameter Display
- Cost Effective Solution
- Battery Reverse-Discharge Protection
- Battery Low Voltage Disconnection (LVD)
- Battery Reverse Connection Protection
- PV Reverse Connection Protection
- With DC Load Option (Optional)

MPPT - SERIES (10-100 Amps.)

- Wide Voltage Battery Range (12V - 96V Battery Inverter)
- 10 Amps. to 40 Amps.
- LED / LCD Display
- High Efficiency Zero Drop Solar Charger
- Compatible with any brand Inverter
- Cost Effective Solution
- Battery Reverse-Discharge Protection
- Battery Reverse Connection Protection
- PV Reverse Connection Protection
- Specially Designed to convert any existing Inverter to Solar inverter and reduce Utility / Electricity bill by using the maximum power utilization of Solar Power.

SOLAR SUPER CONVERTER PCU (10-40 Amps.)

- 12 / 24 V Auto, 48V Battery Selection
- LCD Display
- Settable Operating mode of Load
- Solar & Load Current Parameter Display
- Automatic Identification System Voltage level
- Intelligent PWM Charge Mode
- Automatic Temperature Compensation
- Adjustable Charge-Discharge Control Parameters
- Accumulated Function of Charge And Discharge Ampere hour
- USB Charging (Optional)
- Protections :
  - Overload, Short Circuit
  - Battery Reverse-Discharge
  - Battery Low Voltage Disconnection (LVD)
  - Battery Reverse Connection

D SERIES & Z SERIES (10-50 Amps.)

- Wide Voltage Range (12V - 360V)
- LED / LCD Display
- 10 Amps. to 50 Amps.
- High Efficiency Zero Drop Solar Charger
- Cost Effective Solution
- Battery Reverse-Discharge Protection
- Battery Low Voltage Disconnection (LVD)
- Battery Reverse Connection Protection
- PV Reverse Connection Protection
- With DC Load Option (Optional)

SOLAR MAX & SOLAR HI MAX - SERIES (10-50 Amps.)
# Technical Specifications

<table>
<thead>
<tr>
<th>Series</th>
<th>D Series</th>
<th>Z Series</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated Current</td>
<td>10A 20A 30A</td>
<td>10A 20A 30A</td>
</tr>
<tr>
<td>System Voltage</td>
<td>12V / 24V Auto</td>
<td></td>
</tr>
<tr>
<td>Solar Panel</td>
<td>&lt; 50V</td>
<td></td>
</tr>
<tr>
<td>Float Voltage</td>
<td>13.6V / 27.6V</td>
<td>13.8V / 27.6V Settable</td>
</tr>
<tr>
<td>LVD</td>
<td>10.7V / 21.4V</td>
<td>10.7V / 21.4V Settable</td>
</tr>
<tr>
<td>LVR</td>
<td>12.8V / 25.2V</td>
<td>12.6V / 25.2V Settable</td>
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<tr>
<td>Boost Voltage</td>
<td>b01 Sealed 14.4V / 28.8V</td>
<td>Duration 2 Hours</td>
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<td>USB Output Max (Optional)</td>
<td>1A / 5V</td>
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<td>Temperature Compensation</td>
<td>NA</td>
<td>-4mV / Cell / Deg C</td>
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<tr>
<td>Charge / Discharge Voltage Drop</td>
<td>≤ 0.3V / ≤ 0.2V</td>
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</tr>
<tr>
<td>Self-Consumption</td>
<td>≤ 20mA</td>
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<tr>
<td>Installation Cable Area</td>
<td>≤ 7# AWG (≤ 16mm²)</td>
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</tr>
<tr>
<td>Working Temperature</td>
<td>45°C</td>
<td></td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-30°C ~ 70°C</td>
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</tr>
<tr>
<td>Humidity</td>
<td>10% - 90%, Non Condensing</td>
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</table>
With the FORTUNER Deep Cycle Solar Batteries we can offer a solution for your renewable energy storage system that features reliability and longevity. Unlike some manufacturers who simply repackage existing battery products into a new array and call it a solar battery, we understand market needs and developed an innovative Deep cycle solar storage battery that provides the best available power storage solutions for contemporary Solar and Wind power systems. We have the wide capacity range of Deep cycle Solar batteries.

FORTUNER batteries are heavy weight and that's important! “Heavy” means energy dense plates that use more active lead material. Heavier plates that use more lead material are directly related to stronger battery performance and longevity. So even if the batteries look similar, batteries with more active lead material will last longer!

10 Hr Capacity which gives extra power

Low Self Discharge which increase the Battery Life.

Maintenance Free

Triplex Sealed Construction

High Efficiency of Recovery

High Efficient Deep Discharge

No Electrolytic Stratification

Heavier plates which gives more Power & Longer Backup
**Technical Specifications**

- Low self-discharge rate: ≤ 3% month
- High sealed reaction efficiency: ≥ 99%
- Structure: Compact design, shorter internal connectors between cells
- Terminal: Two or more types terminals are convenient for selection
- Terminal Sealing: Double sealing technique (mechanical + epoxy glue)
- Separator: Using improved AGM separator, makes lower resistance, higher assembling pressure to increase deep cycle life
- Good high rate discharge performance
- Wide operation temperature range: -20 to 60°C
- Plate: Pastel flat type, with advance deep cycle formula of AM
- Vent system: Gases can be vented through flame arrester/filer
- Battery case: Made of high strength ABS(UL94-HB) & (UL94-V0) is optional

**VRLA (AGM & GEL) BATTERIES**

**6V & 12V-2.3Ah to 260Ah**

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<tr>
<th>Model</th>
<th>Voltage</th>
<th>Capacity Ah</th>
<th>HR Rating</th>
<th>Weight (in kg)</th>
<th>Length (in mm)</th>
<th>Width (in mm)</th>
<th>Height (in mm)</th>
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<td>FR 645</td>
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<td>6.5</td>
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<td>522</td>
<td>240</td>
<td>219</td>
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**OPZV (GEL-TUBULAR) BATTERIES**

**2V & 12V-100Ah to 10,000Ah**

OPzV Valve Regulated Lead Acid Battery that adopts immobilized GEL and Tubular Plate technology to offer high reliability and performance. The Battery is designed and manufactured according to DIN standards and with die casting positive grid and advance formula of active material. OPzV series exceeds DIN standard values with more than 20 Years floating design life at 25 Deg C and is even more suitable for cyclic use under extreme conditions.

<table>
<thead>
<tr>
<th>Model</th>
<th>Voltage</th>
<th>Capacity Ah</th>
<th>HR Rating</th>
<th>Weight (in kg)</th>
<th>Length (in mm)</th>
<th>Width (in mm)</th>
<th>Height (in mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FR(OPzV 2-200)</td>
<td>2</td>
<td>200</td>
<td>10 HR</td>
<td>16.8</td>
<td>103</td>
<td>206</td>
<td>355</td>
</tr>
<tr>
<td>FR(OPzV 2-400)</td>
<td>2</td>
<td>400</td>
<td></td>
<td>48.5</td>
<td>345</td>
<td>206</td>
<td>508</td>
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<tr>
<td>FR(OPzV 2-1000)</td>
<td>2</td>
<td>1000</td>
<td></td>
<td>77</td>
<td>233</td>
<td>230</td>
<td>548</td>
</tr>
<tr>
<td>FR(OPzV 2-1500)</td>
<td>2</td>
<td>1500</td>
<td></td>
<td>133</td>
<td>275</td>
<td>210</td>
<td>831</td>
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<tr>
<td>FR(OPzV 2-2000)</td>
<td>2</td>
<td>2000</td>
<td></td>
<td>150</td>
<td>399</td>
<td>214</td>
<td>807</td>
</tr>
<tr>
<td>FR(OPzV 2-2500)</td>
<td>2</td>
<td>2500</td>
<td></td>
<td>210</td>
<td>487</td>
<td>212</td>
<td>507</td>
</tr>
<tr>
<td>FR(OPzV 2-3000)</td>
<td>2</td>
<td>3000</td>
<td></td>
<td>225</td>
<td>576</td>
<td>212</td>
<td>802</td>
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<tr>
<td>FR(OPzV 2-12-100)</td>
<td>12</td>
<td>100</td>
<td></td>
<td>36</td>
<td>407</td>
<td>177</td>
<td>225</td>
</tr>
<tr>
<td>FR(OPzV 2-12-150)</td>
<td>12</td>
<td>150</td>
<td></td>
<td>57</td>
<td>530</td>
<td>200</td>
<td>219</td>
</tr>
<tr>
<td>FR(OPzV 2-12-200)</td>
<td>12</td>
<td>200</td>
<td></td>
<td>73</td>
<td>520</td>
<td>268</td>
<td>225</td>
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</tbody>
</table>

**APPLICATIONS**

- Telecom
- UPS
- Emergency Lighting
- Security
- Utility
- Railways
- Photovoltaic
- Universal
SOLAR WATER PUMP CONTROLLER

1 HP TO 30 HP

- Built-in MPPT tracking algorithm, to get maximum power output from the Solar Array.
- Built-in VFD & Torque Control function, for proper water harvest even in low light condition.
- Low Voltage Panel operation for Human Safety and Low Leakage.
- Pure Sine wave output for longer Pump Life and maximum Power Efficiency.
- Battery Less operation.
- Compatible with any existing three phase water pump.
- Remote monitoring and Control (Optional)
- Auto run on Utility power during Night time (Optional)

Protections:
- Sensor less Dry Run
- Reverse Polarity
- Lightning
- High Temperature
- Over voltage
- Under voltage
- Over Load
- Short Circuit

TURBO SERIES (1 HP - 5 HP)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>1 HP</th>
<th>2 HP</th>
<th>3 HP</th>
<th>4 HP</th>
<th>5 HP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Control Device</td>
<td>22 Bit DSP</td>
<td>3Phase Full Bridge</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Topology</td>
<td>3Phase Full Bridge</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Output</td>
<td>Pure Sine Wave</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Torque Control</td>
<td>Built-In</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MPPT</td>
<td>Auto Tracking</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>VFD</td>
<td>Active</td>
<td></td>
<td></td>
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<tr>
<td>Isolation</td>
<td>Galvanic</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Short Circuit</td>
<td>Protected</td>
<td></td>
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<tr>
<td>Dry Run</td>
<td>Protected</td>
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<td>Lightning</td>
<td>Protected</td>
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</tr>
<tr>
<td>Panel Voltage</td>
<td>110V to 120V</td>
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<td></td>
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<tr>
<td>Panel Vmp</td>
<td>110V to 120V</td>
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<td></td>
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<tr>
<td>Panel Wattage</td>
<td>1200W</td>
<td>2400W</td>
<td>3400W</td>
<td>45000W</td>
<td>5600W</td>
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<tr>
<td>Dynamic Lift Head</td>
<td>100ft</td>
<td>160ft</td>
<td>240ft</td>
<td>320ft</td>
<td>400ft</td>
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</table>

BOOSTER SERIES (3 HP - 30 HP)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>3HP</th>
<th>5 HP</th>
<th>7.5HP</th>
<th>10HP</th>
<th>12.5HP</th>
<th>15HP</th>
<th>20HP</th>
<th>25HP</th>
<th>30HP</th>
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<tbody>
<tr>
<td>Control Device</td>
<td>Digital Signal Processing</td>
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<tr>
<td>Controller Topology</td>
<td>Maximum Powerpoint Tracking (MPPT)</td>
<td></td>
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<tr>
<td>Switching Element</td>
<td>IGBT</td>
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<tr>
<td>Input Voltage (Vmp)</td>
<td>400-700 VDC</td>
<td>500-700 VDC</td>
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<tr>
<td>Working Current</td>
<td>1-20A</td>
<td>10-40A</td>
<td></td>
<td></td>
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<tr>
<td>Output</td>
<td>Pulse Width Modulate, Sine Wave</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Output Voltage</td>
<td>250-440 VAC 3Phase (Factory Selectable for Pumps with Different Output Voltage)</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Frequency</td>
<td>0-60 Hz</td>
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<td></td>
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<tr>
<td>Protections</td>
<td>Dry Run, Surge, Reverse Polarity, Short Circuit</td>
<td></td>
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<tr>
<td>MPPT Efficiency</td>
<td>&gt;90%</td>
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<tr>
<td>Overall Efficiency</td>
<td>&gt;90%</td>
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<tr>
<td>Operating Temperature</td>
<td>-10°C to 60°C</td>
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<td></td>
<td></td>
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<tr>
<td>Topology</td>
<td>Transformerless</td>
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</tr>
<tr>
<td>Head Range</td>
<td>Up to 1000 Feet (Vertical) and up to 30,000 Feet (Horizontal)</td>
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<td></td>
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<tr>
<td>Cooling Method</td>
<td>Natural Connection through Heat Sink</td>
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<td></td>
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<tr>
<td>Pump</td>
<td>Any 3-Phase Pump</td>
<td></td>
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<td></td>
<td></td>
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</tr>
</tbody>
</table>
# Solar Photovoltaic Module

**Unique frame design with high Mechanical strength**

**Excellent performance under low light conditions**

**Advanced module processing technology**

**High conversion efficiency & Higher output**

**Easy installation & Low breakage rate**

---

## Electrical Parameters

<table>
<thead>
<tr>
<th>Model</th>
<th>FRS 50W</th>
<th>FRS 75W</th>
<th>FRS 100W</th>
<th>FRS 150W</th>
<th>FRS 200W</th>
<th>FRS 220W</th>
<th>FRS 250W</th>
<th>FRS 300W</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Power (Pmax) Wp</td>
<td>50</td>
<td>75</td>
<td>100</td>
<td>150</td>
<td>200</td>
<td>220</td>
<td>250</td>
<td>300</td>
</tr>
<tr>
<td>Maximum Power (Vmp)</td>
<td>17.50</td>
<td>18.00</td>
<td>18.00</td>
<td>18.10</td>
<td>30.40</td>
<td>26.75</td>
<td>30.50</td>
<td>36.90</td>
</tr>
<tr>
<td>Maximum Voltage (Imp)</td>
<td>2.80</td>
<td>4.10</td>
<td>5.60</td>
<td>8.31</td>
<td>6.58</td>
<td>8.25</td>
<td>8.20</td>
<td>8.13</td>
</tr>
<tr>
<td>Open Circuit Voltage (Voc)</td>
<td>21.50</td>
<td>21.50</td>
<td>22.00</td>
<td>22.50</td>
<td>37.10</td>
<td>33.20</td>
<td>37.40</td>
<td>44.90</td>
</tr>
<tr>
<td>Short Circuit Current (Isc)</td>
<td>3.15</td>
<td>4.35</td>
<td>6.10</td>
<td>8.72</td>
<td>7.25</td>
<td>8.70</td>
<td>8.72</td>
<td>8.75</td>
</tr>
<tr>
<td>Junction Box</td>
<td>On Request</td>
<td>IP 65 rated Water Proof Nylon 6</td>
<td></td>
<td></td>
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<tr>
<td>Cable</td>
<td>Double Insulated Solar Cable with MC4 Connector</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Front Glass</td>
<td>Low Iron Content, toughened &amp; tempered High transmittance with Glass</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
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</tr>
<tr>
<td>Solar Cells</td>
<td>36 Cells</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Cell Encapsulation</td>
<td>EVA (Ethylene Vinyl Acetate)</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Back Sheet</td>
<td>TPT / EVA White Color</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Frame</td>
<td>Anodized Aluminum Frame</td>
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<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

## Operating Conditions

- **Temperature Range**: 
  - Temperature Coefficients: 0.05%/°C
  - Coefficients of Current: 0.05%/°C
  - Coefficients of Voltage: 0.34%/°C
  - Coefficients of Power: 0.45%/°C

- **Operating Conditions**: 
  - Maximum System Voltage: 1000V
  - Maximum Surface Load Capacity: Tested up to 2400Pa according to IEC 61215

- **Warranty**: 10 Years Product Workmanship, 25 Years Linear Power Warranty

All Electrical Parameters Specified at STC: 25°C, Cell Temperature: 1000W/m², Irradiance: AM 1.5
MPPT SOLAR ONLINE UPS
(SINGLE & THREE PHASE)

1 KVA - 50 KVA

- DSP base true online MPPT Solar UPS with zero changeover time.
- IGBT Based robust and powerful desing.
- With inbuilt MPPT Solar technology which ensure best and optimized use of solar power.
- Real time power sharing with Mains power with technology revolution.
- Power priority sequence: Solar - Grid Battery.
- Best Solar solution for ATM, Banks, Servers, Hospitals and process industry.
- Remote Monitoring SNMP/GSM (optional).
- User settable parameter configuration setting.

- Online double conversion.
- Full DSP Control.
- High output power factor.
- Wide input adaptability.
- Optimized battery management.
- N+X Parallel redundancy.
- Strong overload capability.
- Power walk in.
- Generator mode.
- LBS synchronization.
- Multi-protection.
- EPO function.
- User-friendly network management.
- Remote Monitoring SNMP/GSM (optional).

ONLINE UPS (1 KVA - 500 KVA)
FORTUNER Grid Tie Solar Inverter is designed to convert solar power into utility-grade electricity that can be utilized by the home or sold to the local power authority. Grid tie inverter uses high efficiency MPPT technology to ensure that maximum power harvesting from PV array and converted to AC and delivered to the Utility Grid. Grid Tie Inverters are configured to feed into the LT (Low Voltage) utility network with all safety measures. Anti-islanding feature ensures that the inverter switch off when grid power is absent.

In order to operate, the Solar Grid Tie Inverter must have grid power available and connected. Wide input voltage range of PV array voltage gives the flexibility to the user to use a large range of PV modules.

**Features:**
- High efficiency: max 98.2%, Euro 97.8%
- Max I/P Voltage 1000V
- Wide MPPT working range: 250V-800V
- IP65 protection grade for indoor & outdoor use
- MPPT with unbalance I/P power management
- Dual MPPT with Independent tracking
- State Of The Art Technology

**Touch Screen Display**
- Incredibly responsive touch screen display
- Accessible even after sunset
- Inbuilt data Logger
- Graphic icons for clear readability
- Multi-inverter readings on one display
- Real-time monitoring of instant data Log transfer feature through USB pen drive
Fortuner Energy Storage Systems is a visually stunning addition of Power Electronics for your Home/Office Energy needs. A powerful Solar Hybrid Inverter complemented with a compact system of batteries to provide you the peace of mind you deserve.

Advantages:
- Runs your AC for 3 hours
- Elegant looks for a drawing room solution
- Compact: takes very little footprint
- 9.6kWh SMF Batteries
- 3kVA Hybrid Inverter

Applications:
Energy storage systems are used wherever there is a requirement for power backup. This product is especially useful for applications such as: residences, small offices, shops, Bank ATMs, clinics, gyms etc. A 3kVA inverter is sufficient to run loads for all the above and more.

STRING COMBINER BOXES
We offer a wide range of Array Junction Boxes, String Monitoring Boxes, and DC Fuse Boxes suitable for combining PV panel strings at various levels. These combiner boxes can easily handle high voltage PV strings and give on-line current data of each string used to reliably detect reduced generation or failure of any string. The product is 100% customizable and is suitable for harsh weather conditions.

Features:
- Monitoring of up to 24 strings in a single box
- 100% customisable as per requirement
- Can be manufactured under other brand names
- Approved for all safety and performance standards
- Supplied to over 1000 MW capacity plants in India
- Now 1500VDC version also available

String Combiner Boxes
INTELLIGENT SOLAR HYBRID SYSTEM

Grid Synchronized with Battery based storage  |  Export to grid During Lean Load  |  Customizable Scheduling Features

Features:

- **Industrial Solution**: Best Solar Solutions for Industrial and Commercial Complex.

- **Active Front End Technology**: Low distortion O/P at unity power factor, Increased battery life by avoiding PSOC condition. Export excess PV power to grid through grid synchronisation.

- **BESS Solution**: Peak load shaving/ load levelling, Voltage/ Frequency regulation, Time shifting applications.

- **Scheduling Features**: Controlled scheduling via keypad or PLC, Battery charging according to TCO, Programmable night saving mode.

- **Flexible Compatibility**: Can be AC coupled with String inverters, Compatible with wind, hydro and other sources as well Seamless synchronisation with DG Sets.

Fortuner Intelligent range of Solar Hybrid Inverters is the Trusted Hybrid solar technology in the Indian market. Active front end technology enables it to store the renewable solar energy in the battery as well as export any excess solar power generated, to the grid through net meter, resulting in improved savings at consumer end. High level of flexibility in the form of configurable set points gives the intelligent series an unparalleled level of control over the inverters’ parameters. Customizability of settings makes it the ideal product for solar applications like process industries or Telecom BTS where each site has a different grid condition.

Remote monitoring facility make this inverter more user friendly, User can remotely control and monitor all system parameters with interactive graphical options.
X-RAY BAGGAGING & ACCESS CONTROL, TURNSTILES SYSTEM

Features:-
- Colour Imaging
- Quadrant Zoom
- Advanced Management System (AMS)
- Advanced Operator Control Panel (AOCP)
- Atomic Number Measurement
- Auto Image Archiving
- Black and White
- Black and White Reverse
- Computer Based Training (CBT)
- Continuous Scanning
- Continuous Zoom
- Custom Paint – Option
- Density Alert
- Distortion Correction
- Edge Enhancement, Dual View

X-Ray Baggage Scanning System

Turnstiles are used at a wide variety of settings, including stadiums, amusement parks, mass transit stations, office lobbies, airports, ski resorts, factories, power plants and casinos. Security is a rising concern in the world today. From hackers accessing valuable information to intruders threatening the safety of people and property, companies are recognizing the need for better security. To improve the physical security of buildings and facilities, one of the best options is often the use of turnstiles to control employee and visitor access.

Features:-
- Improved Security
- Access Control Integration
- Operational Flexibility

Access Control Turnstiles Systems
ANPR (Automatic number plate recognition) can be used to store the images captured by the cameras as well as the text from the license plate, with some configurable to store a photograph of the driver. Many cities and districts have developed traffic control systems to help monitor the movement and flow of vehicles around the road network. This had typically involved looking at historical data, estimates, observations and statistics, such as:

**Features:**
- Car park usage
- Pedestrian crossing usage
- Number of vehicles along a road
- Areas of low and high congestion
- Frequency, location and cause of road works

An electronic ticket (commonly abbreviated as e-ticket) is the digital ticket equivalent of a paper ticket. The term is most commonly associated with airline issued tickets. Electronic ticketing for urban or rail public transport is usually referred to as travel card or transit pass. It is also used in ticketing in the entertainment industry.

An electronic ticket system is a more efficient method of ticket entry, processing and marketing for companies in the airline, railways and other transport and entertainment industries.

**Features:**
- Front End Equipment
- Central Processing System
- Revenue Clearing System
- Contactless Technology
- Integrated Communication & Supervision Systems
- Rail Signalling Systems
LED LIGHTS

Technical Specifications

- System Wattage: 3W-5W-7W-9W-12W
- Input Voltage: 230V AC
- Operate on: 60V-300V AC
- LED Driver Efficiency: >95%
- LED Lumen: 135 lm/w
- Power Factor: >0.9
- Frequency: 50 Hz

LED BULBS

Technical Specifications

- Watt Capacity: 5W-24W
- Input Voltage: 230V AC
- Operate on: 120V-300V AC
- LED Driver Efficiency: >95%
- LED Lumen: 135 lm/w
- Power Factor: >0.9
- Frequency: 50 Hz

LED TUBE LIGHT

Technical Specifications

- Watt Capacity: 3W-18W
- Input Voltage: 230V AC
- Operate on: 120V-300V AC
- LED Driver Efficiency: >95%
- LED Lumen: 135 lm/w
- Power Factor: >0.9
- Frequency: 50 Hz

LED DOWN LIGHT

Technical Specifications

- Watt Capacity: 10W-200W
- Input Voltage: 230V AC
- Operate on: 120V-300V AC
- LED Driver Efficiency: >95%
- LED Lumen: 135 lm/w
- Power Factor: >0.9
- Frequency: 50 Hz

LED FOCUS & HIGH BAY LIGHT

Technical Specifications

- Watt Capacity: 9W - 60W
- Input Voltage: 230V AC
- Operate on: 120V-300V AC
- LED Driver Efficiency: >95%
- LED Lumen: 135 lm/w
- Power Factor: >0.9
- Frequency: 50 Hz

LED PANEL LIGHT
**LED STREET LIGHT**

- High intensity LED's
- High Efficiency
- IP65 Enclosure
- High Power Factor
- Wide Mains input range
- Constant Brightness even low voltage condition

**Technical Specifications**

- System Wattage: 6W-120W
- Input Voltage: 230V AC
- Operate on: 120V-300V AC
- LED Driver Efficiency: >95%
- LED Lumen: 135 lm/w
- Power Factor: >0.9
- Frequency: 50 Hz

**AC STREET LIGHT**

- Bright Light
- High Efficiency
- IP65 Enclosure
- High Efficiency Solar Charger
- Dusk to Dawn, Automatic ON/OFF
- LED indicator for Low Battery & Charging
- Battery Under and Over Charge Protection

**Technical Specifications**

- System Wattage: 10W-160W
- Input DC Voltage: 12V / 24 V
- LED Driver Efficiency: >95%
- LED Lumen: 135 lm/w

**SOLAR DC STREET LIGHT**

- Integrated Lithium ion batteries and solar panel
- Multilevel light intensity controlled for energy saving and more backup
- PIR motion sensor: which ensure more working time and detect human movement to magnify or dim the light output and eventually saving battery life
- Compatible with any pole mounting
- Dusk and down with motion sensor

**Technical Specifications**

- System Wattage: 6W-40W
- Input DC Voltage: 12V / 24 V
- LED Driver Efficiency: >95%
- LED Lumen: 135 lm/w

**SOLAR ALL IN ONE STREET LIGHT**
OTHER PRODUCTS

- Micro-Controller Based Circuit.
- High intensity LED’s
- Dual charging from Solar & Grid
- Hi Strength Polymer Body.
- Multiple Mobile Charging.
- Longer Power backup.
- User Friendly Operation.
- Three Level Selectable Brightness modes.

SOLAR LANTERN

- Superior performance with Elegant design.
- Maximum output with minimum power consumption
- 100% pure Copper to guarantee quality and life of the motor
- High Speed  - Energy Saving
- AC/DC Double Duty  - Low power consumption
- Long Life - More than 3000 hours lifetime
- Reverse Battery polarity protection

SOLAR DC FAN

- Built in Battery.
- LED Torch function.
- Compact & Unique Design.
- Available in multi configuration
- Solar / Mains Charging Compatible.
- FM Radio, USB, SD Card interface for music.
- LED Indicators for Mains, UPS, Charging & Overload.
- Battery Deep Discharge and Overcharge Protection.

SOLAR HOME LIGHTING KIT

- Built in Battery.
- Fully Automatic.
- LED Torch function.
- Compact & Unique Design.
- Solar / Mains Charging Compatible.
- FM Radio, USB, SD Card interface for music.
- LED Indicators for Mains, UPS, Charging & Overload.
- Battery Deep Discharge and Overcharge Protection.

CFL INVERTER

- Unique design.
- Strong structure.
- Front Door open
- Optimum loading capacity.
- Single & Double Battery option at same level
- Strong Base Wheels for easy to move.
- Protect the floor with acid.

BATTERY TROLLEY
Save Energy Save World

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