



Embrace Technology, Empower Humanity.



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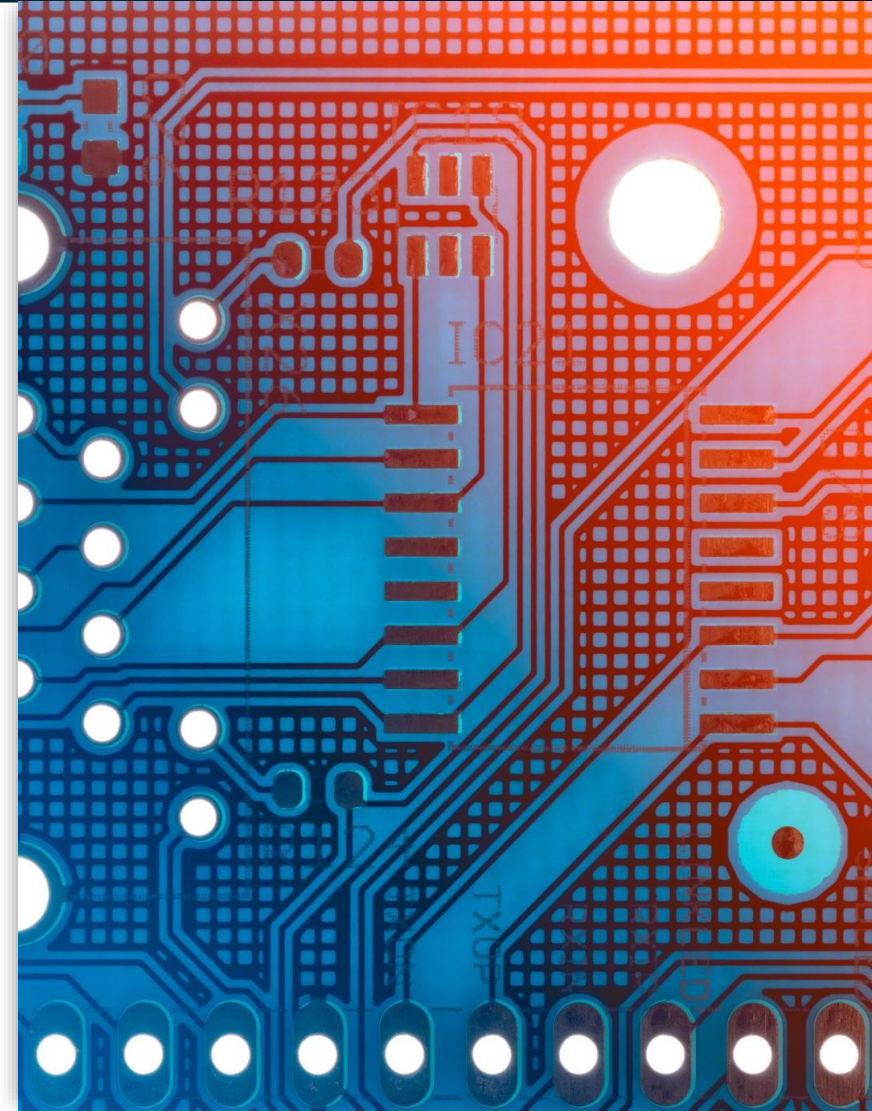


Contact



About Us

- Welcome to JES Electronic Systems Private Limited, where innovation and excellence converge in the electronics and technology industry. Founded in 2020 by visionary Mrs. Ratna Thakur, and headquartered in Delhi, India, we are dedicated to pioneering the future through groundbreaking advancements.
- Our primary focus lies in pioneering research, cutting-edge innovation, meticulous design, and the development of high-tech products, especially for the modernization of railways. With several RDSO-approved in-house developments, we are setting new standards in the industry. Our highly qualified team excels in every department, including R&D, Production, Quality Assurance, and Customer Service, ensuring that we deliver nothing but the best.
- At the heart of our company lies innovation. Our cutting-edge R&D center in Delhi, driven by a dedicated team, transforms complex technologies into user-friendly solutions for industrial automation, consumer electronics, and custom applications. Each product undergoes rigorous testing to guarantee exceptional performance and reliability.
- Sustainability is a core value for us. We embrace eco-friendly manufacturing practices to reduce our environmental footprint. Our approach encompasses understanding requirements, crafting effective strategies, delivering superior designs, and ensuring unparalleled client satisfaction.



Vision & Mission

VISION

“To transform lives through technology —
where every breakthrough leads to
meaningful service.”

MISSION

“To lead with innovation and precision,
offering full-cycle product development
that solves real challenges and elevates
our clients’ success.”



Our values & Goals



Core Values



Integrity

At JES, integrity is more than a principle—it's our guiding force. Our commitment to ethical conduct, quality, and respect shapes every decision and action, ensuring trust and reliability in our industry.



Excellence

At JES, excellence drives everything we do. We adhere to the highest industry standards, ensuring superior quality in our products, services, and operations. We deliver projects efficiently, fostering trust and long-term partnerships. By investing in our team's development and maintaining rigorous standards, JES leads the industry in quality and reliability.



Collaboration

At JES, collaboration drives our success. We leverage diverse team strengths, partner closely with clients, and maintain transparent communication to deliver tailored solutions. Our strategic alliances and industry engagement enhance our capabilities, fostering innovation and efficient problem-solving. Through teamwork, we achieve outstanding outcomes for our clients and partners,

Goals



Leading in innovation and technology At JES, our goal is to lead the industry in innovation and the application of the latest technology. We are dedicated to staying at the forefront of technological advancements, driving progress, and delivering cutting-edge solutions that meet the evolving needs of our clients.

Continuous Advancement Stay Ahead of Trends: We commit to staying ahead of industry trends by continually exploring and adopting emerging technologies. Research and Development: Investing in R&D to pioneer new technologies and innovative solutions.

Client-Centric Solutions Tailored Innovation: Developing customized, tech-driven solutions that address the unique challenges and opportunities faced by our clients. Enhancing Efficiency: Utilizing the latest technologies to streamline processes, improve efficiency, and reduce costs for our clients.

Sustainable Technology Eco-Friendly Innovations: Focusing on sustainable technologies that minimize environmental impact and promote long-term ecological balance. Energy Efficiency: Implementing technologies that enhance energy efficiency and sustainability in our operations and client solutions.

Team – Founder & Director



CAPT. BHOLA THAKUR
DIRECTOR

We are dedicated to fostering innovation, excellence, and sustainability in all our endeavors. Our commitment to quality and efficiency ensures that we deliver superior products and services, building lasting relationships based on trust and reliability. As we look to the future, we aim to expand our market presence and leverage emerging technologies to create greater value. Together, let's shape a brighter, more sustainable future.



RATNA THAKUR
FOUNDER, CEO

I am proud to share our unwavering commitment to innovation, excellence, and sustainability. We continually strive to enhance our products and services, ensuring the highest quality and efficiency for our customers. By embracing new technologies and sustainable practices, we aim to create greater value and a positive impact on our community and environment. Thank you for your ongoing support and partnership. Together, we will shape a promising and sustainable future.

Team – Our Gems



T.P. Ganesh
COO



Adnan Beg
Head - NPD



Akhilesh Jha
Manager-Accounts



Vijay Kumar
Manager - Assy



Pradeep Chauhan
Manager - BD



Vineet Tiwari
Manager-Planning



Lalit Lal
Asst. Manager - Quality



Pushpa
Asst. Manager - PCBA



Birender
Asst. Manager - Store



Krishan Aggarwal
Asst. Manager - BD



Nitesh Malhotra
Head – R&D



Christina
Manager – R&D/HW



Md. Sahid
Manager – R&D/SW



Zeeshan Ali Khan
**Manager – R&D-
Validation**



Mohit Kumar
**Asst. Manager -
Purchase**

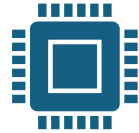
Manufacturing Setup



JES Electronic Systems Private Limited boasts advanced manufacturing facilities integrating the latest technologies for precision and efficiency. Our cutting-edge Surface Mount Technology (SMT) lines feature high-speed pick-and-place machines, reflow ovens, and automated optical inspection (AOI) systems, ensuring superior PCB assembly. IoT-enabled devices offer real-time monitoring for predictive maintenance, minimizing downtime and optimizing production continuity.



Our quality check and assurance process is designed to meet and exceed customer requirements. Our dedicated team employs advanced quality control systems, including automated optical and X-ray inspections, to ensure precision and consistency. Rigorous testing protocols, such as functional, in-circuit, and environmental stress testing, are conducted at multiple stages of production to guarantee product reliability.



Real-time monitoring through IoT-enabled devices allows for predictive maintenance and immediate quality interventions. Our controlled cleanroom environments minimize contamination, ensuring the highest quality for sensitive components. Continuous improvement through R&D investments and regular workforce training ensures we stay at the forefront of quality assurance practices. Our commitment to stringent quality checks and assurance processes ensures that we deliver products that meet the highest standards and customer expectations.



SMT MACHINE



REFLOW



ENVIRONMENTAL TESTING CHAMBERS



Dark Room



TERMINAL MACHINE



WIRE STRIPPING/
CUTTING MACHINE



SOLDERING TOOLS



DIPPING MACHINE



R & D



PCB WASHING AREA



TESTING



PRODUCTION



QUALITY CHECK



ASSEMBLING



ENDURANCE ROOM



PACKAGING

Our Services



SYSTEM DESIGN

Our team's extensive expertise in electronic system design, combined with a deep understanding of cutting-edge technologies, enables us to deliver tailored, top-tier solutions to meet your specific needs.



GAP ANALYSIS

Evaluate current processes, define target goals, identify gaps, develop action plans, implement with timelines, and continuously monitor progress.



PRODUCT DESIGN

- Full Product Development
- Technical Support
- Product Upgrades and Retrofits
- Documentation and Compliance
- Prototyping & Testing



SOFTWARE DESIGN

We excel in embedded and Android software design, providing customized end-to-end solutions for seamless hardware integration and peak performance



EMS (ELECTRONIC MANUFACTURING SERVICES)

- Contract Manufacturing
- SMT and Through-Hole Assembly
- Quality Assurance
- Supply Chain Management



INDUSTRIAL AUTOMATION

- Design and Implementation
- System Integration
- Custom Engineering Solutions
- Maintenance and Support



COMMUNICATION & IOT

- USB 2.0 Based Filed Programmer
- TCP/IP, UDP & HTTP PED Boards
- Wi-Fi, GPRS & Zigbee LED VMS
- Bluetooth RGB LED Light
- Remote Monitoring System (RMS)



INFORMATION DISPLAYS

- Integrated Passenger Information Systems (RDSO -108)
- GPS Synchronized Digital Clock
- (RDSO -6 2)
- Production Line Display Board
- Bus Display with GPS Based Announcement
- Remote GSM based VMS
- PAPIS (RDSO – CG18001)



POWER ELECTRONICS, EV

- Inverters and Converters
- Battery Management Systems (BMS)
- Energy Efficient Products
- EV Controller
- SMPS & Charge Controller
- LED Driver
- RGB LED Lights Displays



Our Products - Integrated Passenger Information System (IPIS-RDS0 108)

For Indian Railways, used at Railway Stations



COACH GUIDANCE DISPLAY BOARD (CGDB)

- **LED:** White LED
- **Pixel Pitch:** P10 / P5
- **Location:** Along platforms.
- **Features:** Displays coach numbers and their positions.
- **Benefits:** Streamlined boarding, efficient passenger flow, clear instructions.



SINGLE LINE / PLATFORM DISPLAY BOARD (SLDB / PFD)

- **LED:** White LED
- **Pixel Pitch:** P10
- **Location:** Key points at the Platforms.
- **Features:** Displays train arrivals, departures, and platform numbers.
- **Benefits:** Quick reference, rapid updates, strategic placement.



AT A GLANCE DISPLAY BOARD (AGDB)

- **LED:** White LED
- **Pixel Pitch:** P10
- **Location:** FOBs.
- **Features:** Displays real-time updates on train arrivals, departures, platform numbers, and delays.
- **Benefits:** Quick Information Access, Enhanced Visibility, Real-Time Updates.



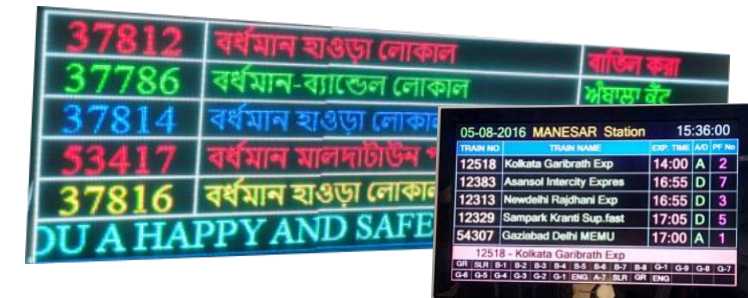
CENTRAL DATA CONTROLLER (CDC)

- **Integrated with NTES & CAP**
- **Location:** Server room.
- **Features:** Manages and distributes accurate and timely information to all display units.
- **Benefits:** Centralized management, reliable data distribution, enhanced coordination.



MULTI LINE DISPLAY BOARD (MLDB) (3 / 5 / 6/12 LINE)

- **LED:** White LED
- **Pixel Pitch:** P10 / P5
- **Location:** Prominently placed at stations.
- **Features:** Displays train numbers, arrival/departure times, platform numbers, and schedule changes.
- **Benefits:** High visibility, comprehensive information, real-time updates.

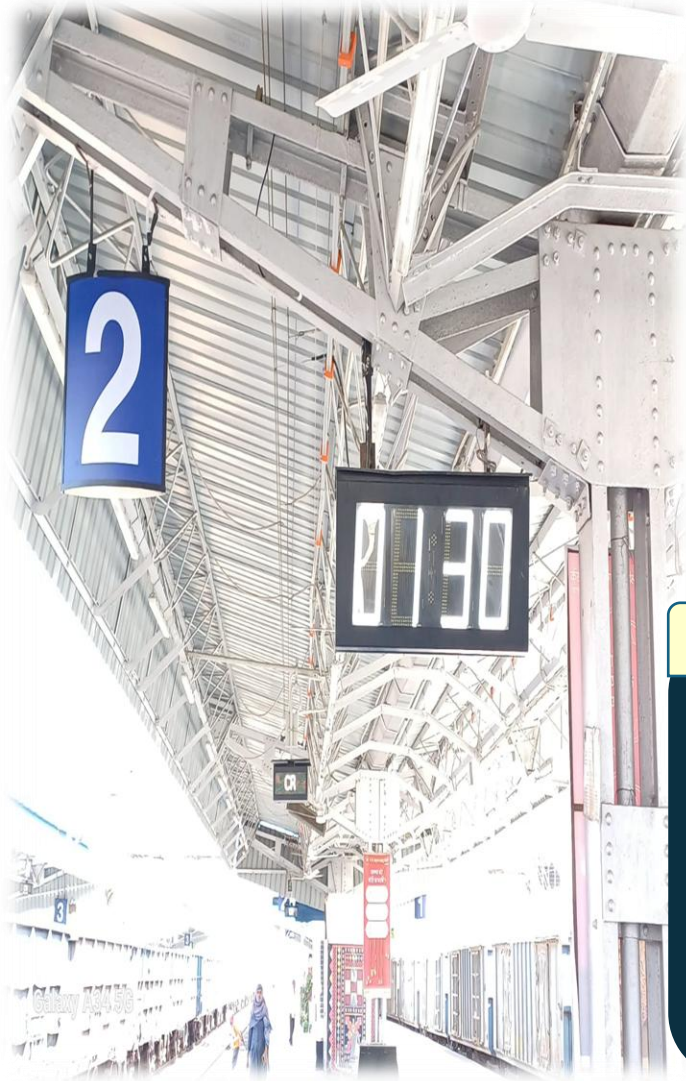


TRUE COLOUR VIDEO DISPLAY BOARDS (IVD-INDOOR, OVD-OUTDOOR, AVD-ALL IN ONE VIDEO DISPLAY, TV)

- **LED:** RGB / LCD 24X7
- **Pixel Pitch:** P10, P8, P7.5, P6, P5, P4, P2.5
- **Location:** Open areas/Entrance of the station.
- **Features:** Provides dynamic and engaging visual content, real-time train schedules, important announcements, Videos & advertisement.
- **Benefits:** Dynamic visuals, wide coverage, informative and interactive.

Our Products - GPS based digital clocks (RDS0 62)

For Indian Railways, used at Railway Stations



GPS BASED OFFICE CLOCK

Features:

- HH:MM:SS format
- Clear LED Display
- Multiple Time Formats
- Automatic Brightness Adjustment
- Backup Battery

Benefit:

- Modern Aesthetic
- Energy Efficient
- Easy to Use



GPS BASED TOWER CLOCK

Features:

- HH:MM / Analog format
- TRUE / RGB colour
- Custom size
- Seamless Integration
- Low Maintenance

Benefit:

- Enhanced Punctuality and Scheduling
- Passenger Satisfaction
- Operational Efficiency



GPS BASED PLATFORM CLOCK

Features:

- HH:MM format
- Unmatched Precision
- Robust Reliability
- Seamless Integration
- Low Maintenance

Benefit:

- Easy Installation
- Enhanced Punctuality and Scheduling
- Passenger Satisfaction
- Operational Efficiency



Our Products - Public address passenger information system (RDSO CG18001)

For Indian Railways, used in coaches



SLAVE LCD / LED DISPLAY

- **LED:** Amber / **LCD:** 18.5"/10"
- **Real-Time Data Display:** Shows current train speed, next stations, and estimated arrival times.
- **Centralized Control:** All displays are synchronized and managed by a master system for uniform updates.
- **Multi-Language Support:** Information can be displayed in multiple languages for diverse passengers.
- **High Visibility:** Bright and clear displays ensure readability in various lighting conditions.
- **Dynamic Content Capabilities:** Supports safety instructions, advertisements, and other useful content.
- **Automated Updates:** Integrated with GPS for real-time updates without manual intervention.



DESTINATION DISPLAY BOARD

- **LED:** Amber
- **Real-time Updates:** Displays current route, stops, and schedule changes.
- **Multi-language Support:** Offers information in various languages.
- **High Visibility:** Bright, clear displays for all lighting conditions.
- **Customizable Content:** Adjusts to show different messages or advertisements.



MAIN PROCESSING UNIT

- The Main Processing Unit (MPU) is a vital component in Indian Railway coaches, serving as the central hub for complete Passenger Information Systems (PIS).
- Designed to operate in the demanding environments of railway coaches, the MPU features robust processing power, versatile communication interfaces, and reliable environmental resistance. By coordinating these diverse systems, the MPU enhances passenger comfort and safety, optimizes energy usage, and supports predictive maintenance.

Our Products - Fog Pilot Assistance and Safety System (FogPASS)

For Indian Railways, used in coaches



Fog Pilot Assistance and Safety System (FogPASS)

- RDSO/SPN/201/2010, Ver. 3.0 Compliant – Fully approved and reliable.
- Portable Safety Aid – Provides Loco Pilots with pre-warnings for signals, level crossings, speed restrictions, and neutral sections.
- Compact & Rugged Tablet – 7" touch display, ≤700 gm, anti-glare screen, IP54 robust casing.
- Long-Lasting Battery – Inbuilt Li-ion battery with 14 hours backup; recharges within 3 hours.
- Seamless Connectivity – LTE/4G/5G with e-SIM (fallback to 2G); supports over-the-air updates for routes, caution orders, TSRs/PSRs.
- High-Precision Navigation – GPS/GNSS + NAVIC with up to 1m accuracy, sub-meter assisted mode.
- Smart Route Management – Automatic route detection & selection (manual confirmation available).
- Advance Warning Alerts – Configurable alerts at 500m (foggy) and 900m (clear weather).
- Audio-Visual Alerts – 85 dB+ sound with multilingual voice options & color-coded signal display.
- Future Landmark Display – Shows next 3 landmarks with distance and signal status.
- Extreme Durability – Functions in -10°C to +75°C, 100% humidity, dusty, coastal & high-vibration environments.
- International Standards – IEC & EN compliant for EMC, vibration, shock, heat, and water resistance.
- Data Logging – Stores 15 days of operational data, downloadable via USB or server.
- Complete Kit – Includes charger (110V DC / 72V DC / 230V AC), swiveling stand, carry bag, and cables.
- Software Analysis – Supports route planning and operational analysis.

Our Products - RMPU Controller , Coach Emergency Light, Thermostat

For Indian Railways, used in coaches



RMPU Controller

Features:

- Controls the air conditioning unit to maintain desired temperature.
- Monitors and regulates air quality within the coach.
- Advanced diagnostics and troubleshooting capabilities.

Benefits:

- **Climate Control:** Maintains a comfortable temperature regardless of external weather conditions.
- **Air Quality:** Ensures fresh and clean air circulation.
- **Efficiency:** Optimizes energy use, reducing operational costs.

Emergency Light Type I & Type II

Features:

- Automatically activates during power outages.
- Provides sufficient illumination to prevent panic and ensure safe movement.
- Long-lasting LED technology for extended use.

Benefits:

- **Enhanced Safety:** Ensures visibility in emergencies, reducing the risk of accidents.
- **Reliability:** High-quality LEDs offer consistent performance.
- **Energy Efficiency:** Consumes less power, ensuring longer battery life.

THERMOSTAT

Features:

- Temperature Control.
- Energy Saving Modes.

Benefits:

- **Comfort:** Advanced features like learning algorithms and zoning ensure optimal comfort by maintaining desired temperatures consistently.
- **Environmental Impact:** Reduced energy usage leads to a smaller carbon footprint, contributing to environmental conservation.
- **Improved Air Quality:** Humidity control and regular maintenance alerts help maintain better air quality.

Our Products - Electronic Time Delay relay (ETDR), Pump Controller, Water Level Indicator

For Indian Railways, used in coaches



Electronic Time Delay Relay

Features:

- **Startup Delay:** 2-min & 30-sec delays for compressors.
- **LED Indicators:** Show Power and compressor status.
- **Fail-Safe:** Relays work even if ETDR fails.

Benefits:

- **Safe Start-Up:** Prevents simultaneous compressor start.
- **Reliable Operation:** Smooth, controlled operation.
- **Fail-Safe:** Compressors run uninterrupted if ETDR fails.



Pump Controller

Features:

- **Reliable Operation:** Controls 3-phase pumps for efficient water supply.
- **Smart Control:** Auto pump loading, fault isolation, & overload protection.
- **Running Time Display:** Shows pump hours for easy monitoring.

Benefits:

- **Uninterrupted Supply:** Automatic changeover ensure continuous operation.
- **Longer Pump Life:** Alternate loading reduces wear and maintenance.
- **Easy Monitoring & Safety:** Running time display and overload protection simplify operation and maintenance.



Water Level Indicator

Features:

- **Water Level Detection** – Shows tank levels (empty, half, full). IOT enabled.
- **Automatic Pump Control** – Turns pump ON when low and OFF when full.
- **Alarm/Indicator System** – Alerts when water is full or low.

Benefits:

- **Prevents Water Wastage** – Stops overflow and saves water.
- **Saves Electricity & Pump Life** – Motor runs only when needed.
- **Convenience** – No manual checking or switching required.

Our Products - Solar Power: The Energy of Tomorrow, Today

Empower Your Future with Solar Energy



Harness the sun—the ultimate power source—for clean, renewable, and sustainable energy.

Why Solar Power?

- Sustainability – Infinite energy, protecting resources
- Cost Savings – Lower bills & energy independence
- Reliable & Low Maintenance – Durable, minimal upkeep
- Government Incentives – Rebates & tax credits

Our Solar Solutions

- Residential Solar Systems
- Commercial Solar Solutions
- Utility-Scale Solar Farms

Innovation & Excellence

- High-Efficiency PV Panels – Maximum output in all conditions
- Energy Storage Systems – Reliable day & night supply
- Smart Monitoring Systems – Real-time tracking & optimization

Environmental Impact

- Zero Emissions – Clean energy, no greenhouse gases
- Resource-Friendly – No water/fuel consumption
- Eco-Smart – Minimal ecological footprint, dual-use land

Industrial Hybrid Inverter Systems

Specification

- Capacity: 5kW / 10kW / 15kW (Customizable)
- Battery: 200Ah / 300Ah / 500Ah
- Input: 48V / 96V / 120V DC
- Output: 220V–240V AC
- Efficiency: >95%
- Wide Temp Range: -20°C to 60°C

Why Industrial?

- High-Capacity & Scalable
- Rugged Design, 24/7 Reliability
- Compatible with large solar arrays
- Ideal for factories, warehouses & industrial plants

Hybrid Inverter Systems

Specification

- Capacity: 1KVA / 2KVA / 3KVA
- Battery: 100Ah / 150Ah / 200Ah
- Input: 12V / 24V / 48V DC
- Output: 220V–240V AC
- Efficiency: >90%
- **Highlights**
- Pure Sine Wave – Safe for electronics
- Smart Battery Management – Longer life
- LCD Display – Real-time monitoring
- Low Noise & High Efficiency

Best For

 Homes |  Offices |  Clinics
Small Businesses | 

Charge Controller

Specifications

- Input: 12–48V DC
- Output: 10–60A
- Battery types: Lead-acid, Li-ion, LiFePO4
- MPPT option for maximum efficiency
- **Benefits:** Safe, reliable, low-maintenance

SMPS (Switched-Mode Power Supply)

Specifications

- Input: 110–270V AC, Output: 5–48V DC
- Power range: 50W–2kW
- Protections: Overload, Overvoltage, Short Circuit
- High efficiency & compact design



Our Products - Smart lighting solutions

Our Lighting Solutions for a Brighter Future



AC Street Lights

Specifications

- **Power Source:** AC Mains (110V / 220V)
- **Wattage:** 30W – 250W (varies by model)
- **Lamp Type:** LED / Halogen / CFL options
- **Lifespan:** 25,000 – 50,000 hours
- **Operating Temperature:** -20°C to 50°C
- **Protection:** IP65 / Weatherproof

Key Features

- Energy-efficient LED options
- High luminous efficiency & uniform lighting
- Long lifespan with low maintenance
- Eco-friendly, reduced power consumption
- Easy installation for streets, highways, parks, and campuses

Applications

- City streets & highways
- Residential & commercial areas
- Parks, walkways, and campuses



Solar Street Lights

Specification

- **Power Source:** Solar PV + Battery
- **Wattage:** 10W – 200W (LED options)
- **Battery Type:** Li-ion / LiFePO4 / Lead-acid
- **Solar Panel:** Mono/Polycrystalline, 10W – 300W
- **Lifespan:** 25,000 – 50,000 hours
- **Operating Temperature:** -20°C to 60°C
- **Protection:** IP65 / Weatherproof

Key Features

- Solar-powered, zero electricity cost
- LED lighting: energy-efficient, high brightness
- Battery storage for night-time illumination
- Durable, low-maintenance, weather-resistant
- Smart control: motion sensor & timer options

Applications

- Roads, highways, and streets
- Parks, walkways, and campuses
- Residential and commercial outdoor areas



Solar Home Lighting System

Key Features:

- High-efficiency **solar panels**
- Long-lasting **battery storage**
- **LED lights** for bright, low-power lighting
- **DC fan & TV/charging option**
- Smart **charge controller** for protection

Benefits:

- 100% Renewable & eco-friendly
- Reduces electricity bills
- Provides power during outages
- Low maintenance & easy to install
- Suitable for rural & urban homes

Applications:

- 🏠 Homes | 🎓 Schools | 🏥 Clinics
| 🛍️ Shops | 🌐 Remote areas



Solar Lanterns

Key Features:

- Built-in **solar panel** for charging
- **Rechargeable battery** for long backup
- Bright & efficient **LED light**
- Lightweight, portable, and easy to use
- Options for **mobile charging** (in some models)

Benefits:

- Runs on free solar energy
- No fuel cost, no pollution
- Safe and easy to operate
- Ideal for power cuts and remote areas
- Long life with low maintenance

Applications:

- 🏠 Home lighting | 📖 Study lamp | 🏕️ Camping | 🌙 Night travel | 🌐 Rural households



Our Products - Wide range of FAN

BLDC Fan Solutions: Efficient, Silent, and Reliable

Wide Range of High-Efficiency BLDC Fans- Innovative, Energy-Saving, and Smart Airflow Solutions

In today's world, where energy conservation and sustainability are becoming increasingly crucial, Our BLDC (Brushless DC) technology fans are gaining prominence as a smart, modern solution. These fans are at the forefront of the shift towards energy-efficient appliances, offering numerous benefits that address both environmental concerns and economic needs.

Key Features of BLDC Fans:

- **Energy Efficiency:** BLDC fans consume up to 60-70% less power compared to conventional ceiling fans. This is mainly because the DC motor minimizes energy losses, leading to significant savings on electricity bills.
- **Longer Lifespan:** The absence of brushes in the motor reduces wear and tear, which significantly extends the lifespan of BLDC fans. Additionally, they require less maintenance due to fewer moving parts.
- **Silent Operation:** BLDC fans are known for their quiet operation. The brushless motor reduces noise, making them ideal for environments where silence is crucial, such as bedrooms, offices, and libraries.
- **Remote Control and Smart Features:** Many BLDC fans come with remote control options and smart features like speed regulation, timer settings, and integration with home automation systems, offering convenience and enhanced user experience.
- **Environmental Impact:** With their reduced energy consumption, BLDC fans contribute to lower carbon emissions, making them an eco-friendly choice.

Benefits:

- **Energy Savings:** Significant reduction in electricity bills.
- **Sustainable Living:** Lower carbon footprint with efficient energy use.
- **Reliable Comfort:** Ensures optimal air circulation and comfort.
- **Versatile Applications:** Suitable for residential and commercial spaces.
- **Quiet Performance:** Ideal for bedrooms, offices, and noise-sensitive areas.



Contact Us



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Research Design & Standards Organisation

