**Company Name: Hamshine Electronics and Energy System**

**Brief About the Company:**

Since our inception in 1984, Hamshine has been dedicated to delivering innovative, high-quality solutions with a customer-first mindset. Our belief that “the customer is king” drives every aspect of our operations. With a strong global presence and an unwavering focus on excellence, we continue to provide technologically advanced products backed by reliable after-sales service. We take great pride in building lasting relationships through trust, quality, and performance.

**Message from the Founder**

*"When I returned to India in 1982 after spending a decade working abroad in the field of non-conventional energy and power distribution, I came back with a vision — a vision to contribute meaningfully to our country's growing energy needs. In 1984, that vision took shape with the founding of* ***Hamshine Electronics and Energy Systems*** *in Hassan.*

*From the very beginning, our mission has been clear: to identify the energy needs of India and address them with innovation, integrity, and reliability. We have always believed that progress begins by putting the customer first, and that belief continues to drive everything we do.*

*At Hamshine, we don't just deliver products — we deliver purpose-driven energy solutions that power lives and transform industries. Our journey is one of commitment, quality, and a passion for renewable energy. I invite you to be part of that journey with us."*

**Hamsaraj H J**  
*Founder & Visionary, Hamshine Electronics and Energy Systems*

**Contact Information**

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**Product Name: Solar LED Street Light**

**Product Description:**

Hamshine’s **Solar LED Street Light** is an eco-friendly, energy-efficient outdoor lighting solution designed to operate independently using solar power. Ideal for streets, highways, campuses, rural roads, and parking lots, this system offers reliable illumination without relying on the grid. Built with durable materials and advanced solar technology, it ensures long-lasting performance with minimal maintenance.

Whether you're lighting up a remote village or a modern city street, Hamshine's solar-powered lights are engineered for high efficiency, sustainability, and cost savings.

**Key Features / Benefits:**

✅**Fully Solar-Powered Operation ?**  
– Zero electricity cost and no grid dependency

✅ **High-Efficiency LED Technology**  
– Bright, clear illumination with lower power consumption

✅ **Intelligent Dusk-to-Dawn Sensor ?**  
– Automatically switches ON at sunset and OFF at sunrise

✅ **Long-Life Lithium Battery**  
– Reliable energy storage for extended lighting hours

✅ **Weather-Resistant and IP65 Rated**  
– Performs reliably in rain, dust, and extreme temperatures

✅ **Robust Build with Anti-Corrosion Materials ?**  
– Ensures durability and long service life

✅ **Low Maintenance**  
– Designed for long-term performance with minimal upkeep

**Product Name: Solar Home Lighting System**

**Product Description:**

Solar Home Lighting System is a complete, renewable energy-based solution designed to provide uninterrupted lighting for residential spaces, especially in areas with limited or no access to the power grid. Compact, easy to install, and maintenance-free, this system is perfect for rural homes, emergency backup, cabins, and off-grid applications. It harnesses solar energy during the day and powers energy-efficient LED lights at night, making it a reliable and eco-conscious choice for households. Whether used as a primary lighting source or as a backup during power outages, our system ensures clean, green, and cost-effective energy access for every home.

**Key Features / Benefits:**

✅ **All-in-One Solar Lighting Kit ?**  
– Includes solar panel, battery, controller, and LED lights

✅ **Energy Efficient LED Lamps ?**  
– Provides bright, comfortable lighting with minimal power use

✅ **Inbuilt Battery Backup ?**  
– Ensures lighting even during cloudy days or nights

✅ **Multiple Light Points Support**  
– Can power 2 to 8 LED bulbs or more, depending on model

✅ **Low Maintenance & Durable**  
– Long-lasting components require minimal upkeep

✅ **Ideal for Rural, Remote & Backup Use**  
– Perfect for homes, farms, relief shelters, and off-grid communities

**Product Name: Solar Garden Lighting System**

**Product Description**

Solar Garden Lighting System is a reliable and cost-effective lighting solution for garden, landscape architects, municipalities, resort developers, and commercial property owners. It’s also ideal for public parks, resorts, gardens, and pedestrian pathways.

**Key Features & Benefits:**

✅ **Ideal for Pathways, Balconies, Backyards & Lawns**  
— Versatile lighting solution suited for various residential outdoor settings.

✅ **Scalable Lighting Options to cover larger areas efficiently**  
— Available in multiple configurations to accommodate small gardens or large campuses.

✅ **Smart Light Control with dusk-to-dawn sensors**  
— Automatically turns on at sunset and off at sunrise for hassle-free operation.

✅ **Enhances Landscape Design and Public Safety**  
— Adds visual appeal while improving visibility and security in outdoor areas.

**Product Name: Solar Petrol Pump Power Pack**

**Product Description**

In 1996, Hamshine pioneered the “Solar Power Pack for Petrol Pumps” as a tribute to sustainable innovation and national service. This system is designed to provide uninterrupted power supply to petrol pumps, especially during frequent power outages in rural and semi-urban areas. Mounted atop the petrol pump office building, solar panels harness sunlight and convert it into electrical energy, which is then stored in high-efficiency tubular or lithium batteries. During power failures, the stored solar energy powers the fuel dispensing system seamlessly—eliminating the need to start diesel generators, which not only consume additional fuel but also cut into profits and increase operational hassle.

**Key Features & Benefits**

**✅ Minimal Interruption & Fuel Dispensing During Power Cuts** Ensures seamless operation of fuel pumps even during grid failures, maintaining continuous service**.**

**✅** **Customized Designs**   
Tailored solutions based on specific site requirements.

**✅Hybrid Options Available**   
Combine solar with grid or generator backup.

**✅** **Battery Backup**   
 Ensures power availability during non-sunny hours.

**Product Name: Solar Water Heater System**

**Product Description:**

Solar Water Heater System designed to deliver consistent hot water using clean solar energy. Ideal for residential, commercial, and institutional use, the system reduces dependence on electricity or gas, offering a cost-effective and eco-friendly alternative. With durable materials, smart design, and minimal maintenance needs, it ensures long-term performance in all weather conditions.

**Key Features and Benefits**

**✅Efficient Solar Collectors**Capture maximum solar energy for faster and efficient water heating.

**✅Corrosion-Resistant Tank and Tubing ?**Built for durability and longevity, even in harsh climates.

**✅Multiple Capacity Options**Available in various sizes to suit different household and commercial needs.

**✅Low Maintenance Design**Simple construction minimizes servicing and reduces operating costs.

**✅Reduces Electricity Bills ?**Saves up to 30-40% on conventional energy expenses.

**Product Name: Solar Lantern**

**Product Description**

Solar Lantern – a compact, portable, and eco-friendly lighting solution powered by the sun. Perfect for rural households, camping, emergency use, or outdoor activities, this lantern offers a sustainable alternative to traditional lighting. With an integrated solar panel, long-lasting battery, and energy-efficient LED lights, the Solar Lantern provides bright illumination without the need for electricity or fuel. Designed for ease of use and durability, it ensures dependable lighting anytime, anywhere.

**Key Features & Benefits**

**✅Solar Powered Charging**Charges directly from sunlight, reducing dependency on electricity.

**✅Portable and Lightweight Design**Easy to carry and ideal for indoor or outdoor use.

**✅Bright LED Illumination**Energy-efficient LEDs provide clear and powerful light output.

**✅Cost Effective**Saves money on electricity bills and eliminates fuel expenses.

**✅Ideal for Emergency Use**Provides reliable backup lighting during power cuts.

**Product Name: Fuel Cell Educational Kit**

**Product Description**

The Fuel Cell Educational Kit by Hamshine Solar and Energy Systems is an innovative learning tool designed to introduce students and enthusiasts to the science of hydrogen fuel cell technology. This hands-on kit provides a safe and engaging way to explore renewable energy concepts, demonstrating how hydrogen can be used to generate clean electricity. Ideal for schools, colleges, and science projects, the kit enhances interactive learning, making complex energy concepts simple and fun**.**

**Key Features & Benefits**

**✅Complete Educational Package**Includes all components to build and operate a working fuel cell system

**✅Easy Assembly and Operation** Simple instructions make it user-friendly for beginners.

**✅Reusable Components** Durable parts allow for multiple uses and long-term learning.

**✅Eco-Friendly Demonstration** Showcases clean energy generation with zero emissions.

**✅Portable and Compact Design** Lightweight kit can be easily transported and stored.

**✅Ideal for Science Exhibitions** Perfect for school fairs, competitions, and workshops.

**Product Name: Solar Hostel Lighting System**

**Product Description**

The Solar Hostel Lighting System by Hamshine Solar and Energy Systems is a sustainable, efficient, and cost-effective lighting solution tailored specifically for hostel buildings in rural and urban areas. Designed to operate independently from the power grid, this system harnesses solar energy to provide reliable lighting for study rooms, corridors, dormitories, and common areas. With robust components and backup storage, it ensures uninterrupted illumination—promoting safety, productivity, and energy savings for educational institutions.

**Key Features & Benefits**

**✅Complete Solar-Based Lighting Solution**Powers multiple lights using clean solar energy**.**

**✅Reliable Battery Backup**   
Ensures continuous lighting even during cloudy days or at night.

**✅Energy-Efficient LED Fixtures**Reduces power consumption while delivering bright, uniform light.

**✅Independent Off-Grid Operation**Functions without reliance on main electricity supply.

**✅Supports Institutional Sustainability Goals**Contributes to green initiatives and reduces carbon footprint.

**✅Cost Saving Over Time**Cuts down electricity expenses significantly for hostels and schools.

**Product Name: Indoor Stadium Lights**

**Product Description**

Hamshine Solar and Energy Systems presents high-performance Indoor Stadium Lights designed to deliver superior illumination across large indoor sports facilities. Engineered for optimal brightness, uniform light distribution, and energy efficiency, these lights enhance visibility, safety, and performance during games and events. Whether for school gyms, indoor arenas, or multi-sport complexes, Hamshine’s lighting systems offer a durable, low-maintenance solution with high lumen output and reduced operational costs.

**Key Features & Benefits**

**✅High Lumen Output**   
Delivers powerful and uniform lighting suitable for sports activities.

**✅Energy-Efficient LED Technology**   
Consumes less power while providing maximum brightness.

**✅Glare-Free Illumination**   
Ensures comfortable visibility without harsh light for players and spectators.

**✅Long Lifespan**   
Durable design offers up to 50,000+ hours of operation with minimal degradation.

**✅Wide Beam Angle Options**   
Covers large areas evenly without the need for excessive fixtures.

**Product Name: Solar MPPT Charger Controller**

**Product Description**

The **Solar MPPT (Maximum Power Point Tracking) Charger Controller** is a high-efficiency solar charge controller designed to optimize the power output from solar panels to charge batteries more effectively. Using advanced MPPT technology, it continuously tracks the maximum power point of the solar array to ensure maximum energy harvesting. Suitable for residential, commercial, and industrial solar systems, this controller enhances battery life, system performance, and energy savings—making it an essential component for any high-performing solar installation.

**Key Features & Benefits**

**✅Advanced MPPT Technology**   
Tracks the optimal power point to increase charging efficiency by up to 30%.

**✅Wide Input Voltage Range**   
Compatible with various solar panel configurations and battery types.

**✅High Conversion Efficiency**   
Maximizes energy transfer from panels to battery storage.

**✅Smart Charging Profiles**   
Automatically adjusts to different battery types (AGM, Gel, Lithium, etc.).

**✅Overload & Short-Circuit Protection**   
Built-in safety features protect your system from damage.

**✅Temperature Compensation**   
Improves battery charging accuracy and longevity under varying climates

**✅Supports Remote Monitoring**   
Optional connectivity for off-site system access and control.

**Product Name: Automatic Street Lighting Solar Switch**

**Product Description**

The Automatic Street Lighting Solar Switch from is a smart, energy-efficient control device designed to automate the operation of solar-powered street lights. This intelligent switch detects ambient light levels to automatically turn street lights on at dusk and off at dawn, eliminating the need for manual control. Built for reliability and durability, it enhances the efficiency of solar lighting systems in streets, campuses, farms, industrial areas, and public spaces.

**Key Features & Benefits**

**✅High-Sensitivity Photocell Sensor**  
Advanced light-sensing circuit ensures accurate switching even under partial cloud or shadow conditions.

**✅High Load Capacity**  
Supports control of multiple lights or high-wattage fixtures without requiring external relays.

**✅Wide Voltage Compatibility**  
Operates across a broad DC/AC voltage range, suitable for various solar and hybrid lighting systems.

**✅Smart Dimming Integration**  
Can be paired with smart dimming systems to reduce light intensity during low-traffic hours.

**✅Supports Automation & Smart Grids**  
Can be integrated into smart lighting networks for remote control and monitoring.

**Product Name: Solar PCU Unit**

**Product Description**

The Solar PCU (Power Conditioning Unit) by is an intelligent, integrated solution that efficiently manages power flow between solar panels, grid supply, and battery backup. Designed for residential, commercial, and institutional use, it ensures uninterrupted power with optimized energy savings. Unlike traditional inverters, the PCU prioritizes solar energy usage, intelligently switches sources, and safeguards your systems from fluctuations—making it ideal for areas with erratic grid availability.

Key Features & Benefits

**✅Solar Priority Mode**  
Automatically prefers solar power over grid or battery, maximizing renewable usage.

**✅Inverter + Charger Combo**  
Combines solar inverter, battery charger, and grid synchronization in a single compact unit

**✅User-Friendly LCD Display**  
Real-time data on solar input, battery status, and power flow direction.

**✅In-Built Solar Inverter**  
No need for a separate inverter—the PCU has everything built-in

**✅Compatible with Most Batteries**  
Can be used with regular batteries like lead-acid, tubular, or even lithium.

**✅Solar-Only Mode for Off-Grid Operation**  
Fully functional even in locations without grid connectivity, perfect for rural applications.

**Product Name: Solar On-Grid Micro Inverter**

**Product Description**

The Solar On-Grid Micro Inverter is a compact, powerful device that connects directly to individual solar panels. Unlike traditional inverters that manage the entire solar array together, a micro inverter controls each panel separately—making your solar system more efficient, flexible, and reliable. It converts solar power directly into usable electricity that goes into your home or back to the grid, helping you reduce electricity bills and make the most out of every ray of sunlight.

Key Feature & Benefits

**✅One Inverter Per Panel**  
Each solar panel works independently, so even if one panel is shaded, others keep performing.

**✅Direct Connection to Grid**  
Sends excess electricity back to the grid, reducing your electricity bill through net metering.

**✅Easier System Expansion**  
Want to add more panels later? Just add more micro inverters—no need to upgrade your whole system.

**✅Safe & Low Voltage DC**  
Safer than central inverters since it avoids high-voltage DC wiring.

**✅Smart Monitoring (Optional)**  
Track the performance of each individual panel from your phone or laptop.

**✅No Battery Required**  
Works without a battery, making it ideal for urban homes with stable grid access.

**Product Name: Solar Off-Grid UPS**

**Product Description**

The Solar Off-Grid UPS is a reliable power backup solution designed for homes, offices, and remote areas without a stable electricity supply. This system uses solar energy to charge batteries and provides continuous power even during long power cuts or in off-grid locations. It combines a solar inverter and battery charger into one intelligent unit, ensuring clean, quiet, and cost-effective electricity wherever you need it.

Key Features & Benefits

**✅Works Without Electricity from the Grid**  
Perfect for rural homes, remote areas, or locations with frequent power cuts.

**✅Uses Solar Power to Charge Batteries**  
Charges the battery using sunlight—saves money and reduces dependence on diesel or electricity.

**✅Automatic Backup During Power Cuts**  
Switches to battery mode instantly during power failure—no need to turn anything on manually.

**✅Powers Lights, Fans, TVs & More**  
Can support all essential appliances based on battery and system size.

**✅Compatible with All Battery Types**  
Works with tubular, gel, lithium, and lead-acid batteries.

**✅All-in-One Compact System**  
Combines solar charging, inverter, and UPS into one unit—easy to install and manage.