



IntelliTECH



**UNICORE4X**  
POWERING A BETTER TOMORROW

**The Most Innovative Product of the ATM Industry**



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# Solar Power System Integrated with 4G Router

# 01

A decorative graphic consisting of a 4x6 grid of small dots, similar to the one above, with a color gradient from dark purple to light grey.

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# Patent and Design

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## Overview of Integrated System

Solar Panels generate clean energy to power the ATM and reduce grid dependency.

01

An onboard 4G Router provides reliable internet connectivity for ATM operations, remote monitoring, and secure data transmission.

02

An Energy Management System (EMS) optimizes power usage, ensuring maximum efficiency and backup during power outages.

03

An Intelligent Data Logger continuously monitors and logs critical parameters such as:

04

All data can be accessed remotely via cloud dashboards for real-time performance tracking and preventive maintenance.

05

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## Advantages to Users

# 02



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# Operational and Financial Benefits



## Cost and Efficiency

- **24/7 ATM Uptime** ensures continuous ATM operation during power cuts with reliable solar backup.
- **Reduced Operational Costs**, cutting electricity bills, and minimizing diesel generator fuel costs.
- **Remote Monitoring & Management** via the 4G router enables real- time remote access, software updates, and troubleshooting without on- site visits.
- **Improved Battery Health & Life** through continuous battery monitoring helps prevent deep discharge, overcharging, and premature failure.
- **Safety & Compliance with earth voltage monitoring** helps detect faulty earthing, reducing electrical hazards.
- **Temperature Control** logs cabinet and room ambient temperatures to prevent overheating of sensitive ATM equipment.
- **Predictive Maintenance with data logging** allows early detection of faults, reducing emergency repairs and downtime.
- **Eco- Friendly Solution supports green banking** by lowering carbon footprint through clean solar energy.
- **Enhanced Customer Trust with reliable**, uninterrupted ATM service improves user confidence and satisfaction.
- **Quick ROI through savings** on power and maintenance costs deliver a faster return on investment.

YOUR LOGO



## Technical Features and Specifications

03



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# Main Components



## Key Hardware

- Solar Panels (1000W)
- KVA Inverter
- Battery Bank (12V/180Ah)
- Charge Controller (MPPT/PWM)
- Mounting & Wiring
- EMS Module
- Data Logger
- Router (Optional)



# Specifications

## Detailed Specs

01

Solar Panels 1000W (Poly/Mono)

02

Inverter 1.25 KVA, 24V/36V

03

Battery 12V/150 to 180 Ah

04

Backup 13.5 hours

05

Roof Area Required ~40 to 50 sq. ft.

06

Power Capabilities **Bank ATMs, LED lights, signage, router, switch, Wi-Fi router or small load.**



# Operational View Using Cloud

# 04



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# Data Analysis and Predictive Maintenance

## Proactive Protection and Alerts

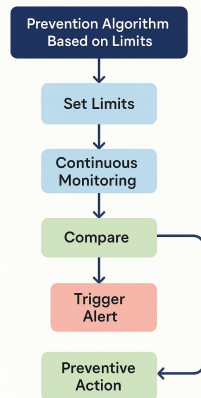
01

**Definition** A prevention algorithm with alerts based on limits is an automated monitoring and control system that continuously checks if measured parameters cross predefined safe thresholds. When a parameter goes outside its limit, the system triggers an alert or takes automatic action to prevent faults, failures, or unsafe conditions.



02

Flowchart



03

Benefits:

- Reduces electricity bill.
- Eco- friendly.
- 20 years assured life
- Backup during outages.
- Reduces ATM maintenance cost.
- Low maintenance
- Provides carbon credit savings.
- **Book, build, and own in 5 years.**



## Environmental and Financial Benefits

# 05



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# Cost Savings and Sustainability

## Financial Projections

01

Generates up to 1.25 KVA (approx. 1000W usable power). Saves 5.5 Units Per Day. Monthly Saving @ Rs. 1320- 00 (Unit Cost @ Rs. 8- 00).

02

EMS provides minimum monthly Saving of 18% with Astronomical, Temperature & Logical Control. Monthly Saving@ Rs. 720- 00.

03

Data Logger Predict and Flash real- time Earth Leakage, Lobby Temperature, UPS Battery Health status which shall keep you posted in advance and provide you the annual ATM Maintenance saving of @ Rs. 10,000- 00.

04

Eco BenefitsAnnual 2.33 Carbon Credit Approx. Value Rs 1400 in India, \$ 116 in USA, \$ 63 in Japan, £26.85 in UK, €73.27 in Europe.

05

Overall AdvantageReduces electricity bill, is eco-friendly, 20 years assured life, backup during outages, reduces ATM maintenance cost, low maintenance.

06

OwnershipBook, build, and own in 5 years.

# Thank You! Team

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01

## POWERING A BETTER TOMORROW

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**UNICORE4X**  
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Corp Office: 306 Plot No 3 Vardhman Centre BH Commercial Complex New Delhi:110088  
Email: [Jitesh.sharma@intellitech.co.in](mailto:Jitesh.sharma@intellitech.co.in)  
Visit: [www.intellitech.co.in](http://www.intellitech.co.in)

