VIGI
by tp-link

Flexible Solution, Non-Stop Power

VIGI Solar Power Security Solution



Why VIGI Solar Power Security Solution

Scan to explore the VIGI Solar System Selector

In remote locations like islands, installing power and data cabling is often challenging due to high costs and complicated environments. Additionally, temporary applications, such as construction sites, require quick installation and removal solutions. The VIGI Solar Power Security Solution offers flexible cabling, remote maintenance capability, and high reliability.

- Remote Maintenance and Management
- Flexible Networking Solution
- All-Weather Stability
- Longer Standby Time
- Environment-friendly



Farmland

Simplifies wiring, and offers 24/7 video recording, full coverage, and timely alerts to protect your property.



Islands

Provides multiple networking options and ensures reliable performance even in tough conditions.



Forests

Reduces wiring and power costs while offering the convenience of remote management and maintenance.



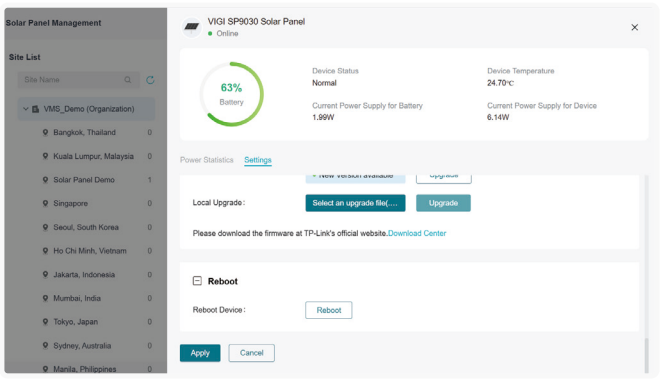
Construction Sites

Quickly set up and dismantle solar-powered security systems. AI detection and instant alerts provide added security.

Manage and Maintain Without On-Site Visits

The VIGI solution, managed through TCP/IP, delivers reliable efficiency. Control multiple locations, monitor power, receive low-battery alerts, get instant event notifications, update firmware, and reboot devices remotely via the VIGI app or VIGI Cloud VMS.

- Reduces On-Site Maintenance Costs
- Manage via VIGI App or Cloud VMS
- Supports Multi-Site Management
- Instant Event Alerts



VIGI Cloud VMS



VIGI App

Flexible Networking Solution Options

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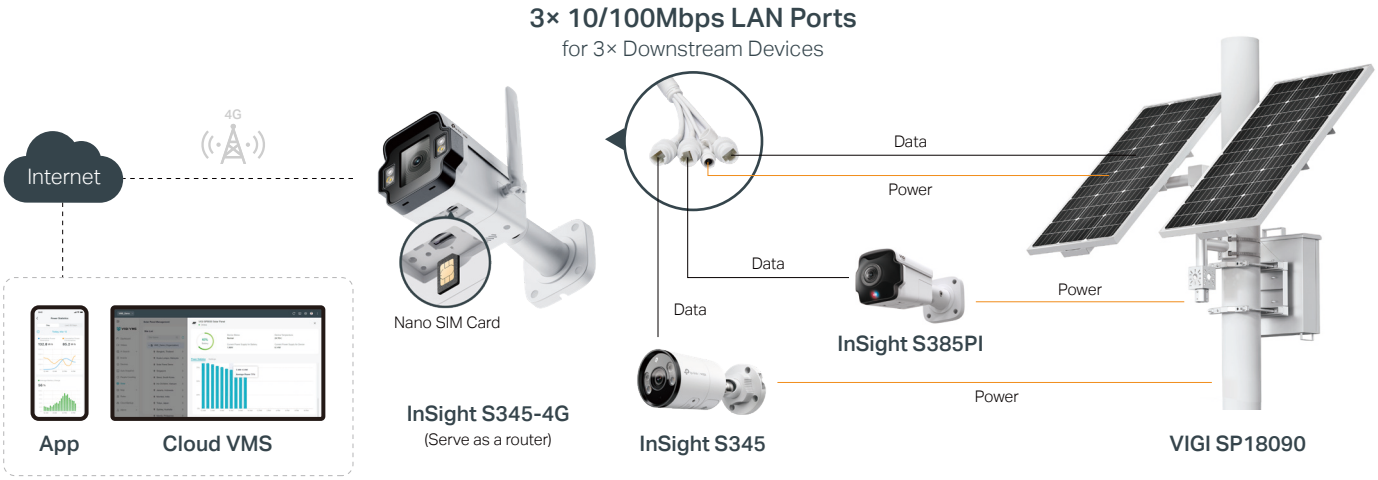
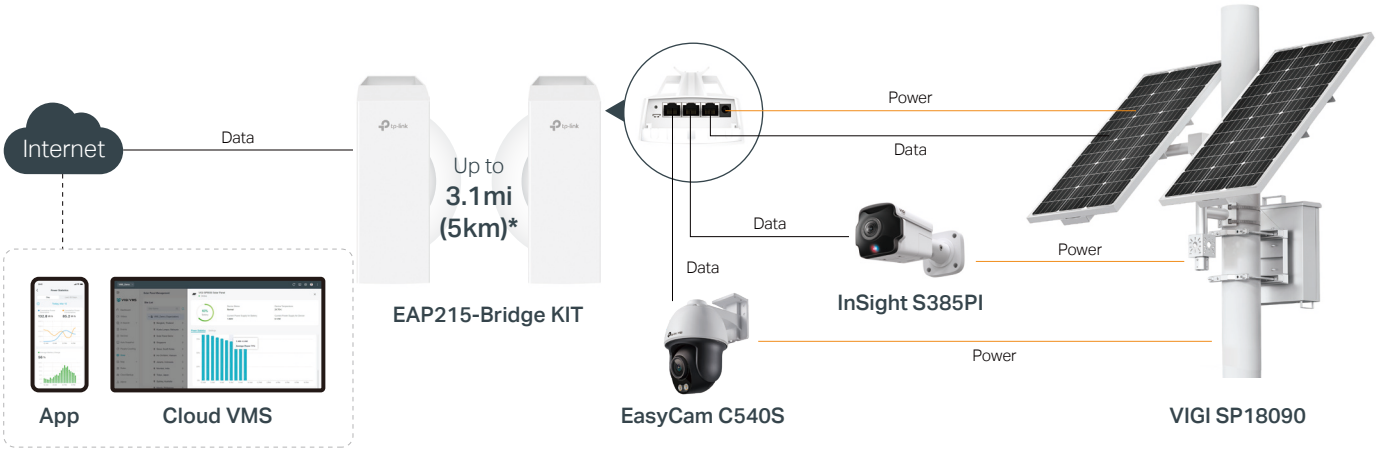
• 4G Outdoor Camera-Solar Power Solution



• Outdoor Wireless Bridge-Solar Power Solution



• 4G Outdoor Gateway-Solar Power Solution



*All products are tested in real outdoor environments. Actual range and throughput depend on the transmission power and environmental factors such as wireless interference, obstacles, weather, etc.
†It is advisable to limit the total number of devices connected to the 4G outdoor gateway to four or fewer, whether wired or wireless. Additionally, the wireless connection range should not exceed 328ft (100m), though actual distance may vary depending on the network environment.

Customized Assembly for Different Scenarios

Scan to explore the VIGI Solar System Selector



1. Three 12V/2A DC ports, suitable for devices[Δ] requring 12V/2A power



2. Replaceable battery pack

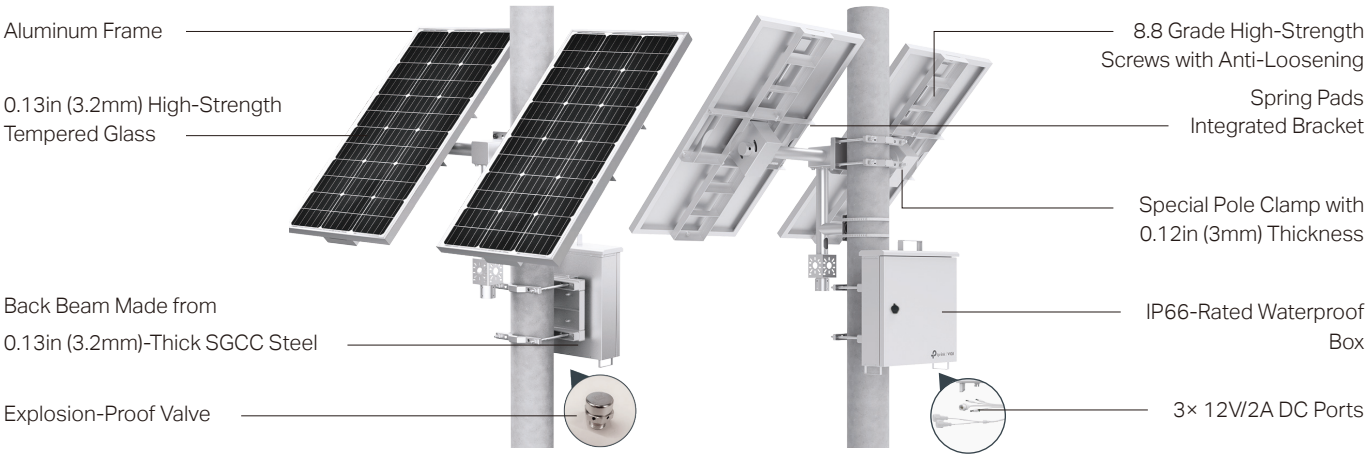
3. In addition to solar power, the battery can also be charged via a DC power cord along with an external power adapter*



All-Weather Stability, Reduced Maintenance Costs

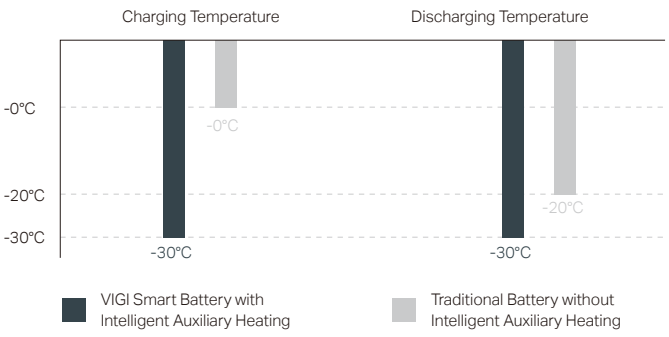
• Durable Hardware Design

IP66	**-30°C~60°C**	**-30°C~45°C**	**Ø0.98in (25mm) & 75ft/s (23m/s)**
Weatherproof[§]	Discharging Temperature**	Charging Temperature**	Hail Resistance[§]

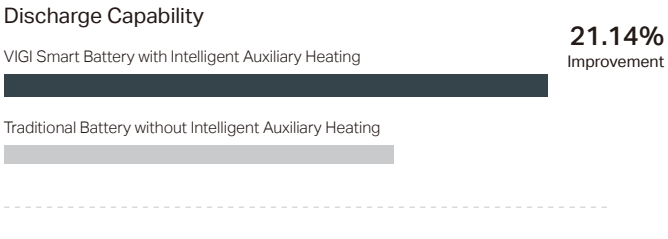


• Intelligent Auxiliary Heating Technology

Charge and Discharge Temperature Limit Comparison



Actual Discharge Comparison at the Same Temperature



*The auxiliary heat will only be turned on when the photovoltaic system has a certain input or the battery has a certain amount of power. The test environment consisted of a 20°C aging box and 1A constant current discharge.

* For more details, please consult your local sales team.

[Δ] We offer cameras and networking devices. For additional devices like speakers and alarm lights, we recommend exploring other brands.

**When the intelligent auxiliary heating technology is activated, the solar power system can sustain its maximum auxiliary heating capacity. This ensures that the battery can be heated from an ambient temperature of -30°C to above 0°C.

[§]All data are from experimental tests or theoretical calculations. Actual performance may be influenced by environmental factors.

Longer Standby Time

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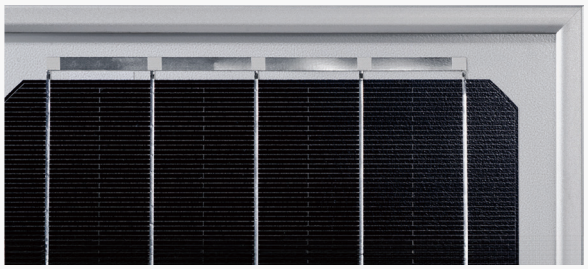
Works for **6.7** Consecutive Days of Rainfall*

+20% ↑ Charging Efficiency with MPPT Controller**

Industrial-Grade Solar Panel



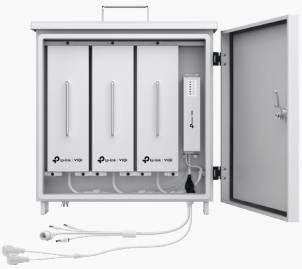
Up to **180**W§

Grade **A** Solar Panel

25+ Year Life§

21.6% ↑ Conversion Efficiency†

Automotive-Grade Lithium Battery



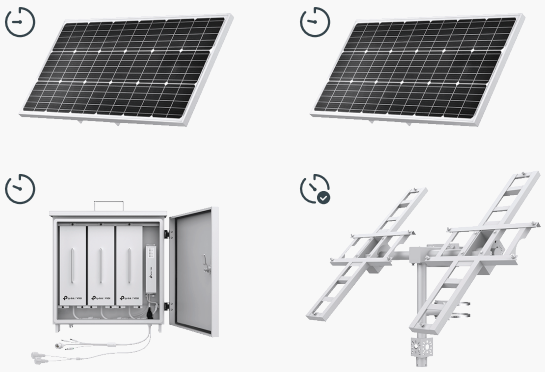
Up to **1024.92**Wh§

Discharge Efficiency up to **99%§**

> 500 Cycles§

Independent Protection Circuit

Fast & Easy Installation



20 Min

Installation completed with our user-friendly modular design



5°/15°/25°/35°/45°/55°

Adjustable angles maximize sunlight utilization

Environment-friendly

Reduces Electricity Consumption by Approximately **258.8‡** kWh per Year

Prevents Approximately **203.2‡** Kg of CO_2 Emission per Year

*Using VIGI SP18090, 2× InSight S345 and 1× EAP215 - Bridge KIT are selected as load devices with average power consumption. In Las Vegas, the system is calculated to work for 6.7 consecutive rainy days.
**This value is compared to the charging efficiency of PWM (Pulse Width Modulation) controller.
§All data are from experimental tests or theoretical calculations. Actual performance may be influenced by environmental factors.
†"21.6% ↑ Conversion Efficiency" is compared to the conversion efficiency of polycrystalline silicon solar modules.
‡Example calculation: For VIGI SP18090 with ER703WP-4G-Outdoor, InSight S385PI, and InSight S385, calculations are based on average device power consumption, 24-hour daily operation, and charging device power consumption and efficiency. Results for reference only.

Product List

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Integrated Solar Power Supply Models

Product Type		VIGI Intelligent Solar Power Supply System	
Product Image			
Product Model	VIGI SP9030	VIGI SP6030	VIGI SP6020
Solar Panel Power	90W	60W	60W
Battery Capacity	31.2Ah@10.8V Ternary Lithium	31.2Ah@10.8V Ternary Lithium	20.8Ah@10.8V Ternary Lithium
Operating Temperature	Charging: -30°C~45°C (With intelligent auxiliary heat), Discharging: -30°C~60°C (With intelligent auxiliary heat)		
Output	Output1&2: 9~12.6V/2A, Output3: 12V/2A		

Modular Solar Power Supply Models*

Product Type		VIGI Solar System Controller	
Product Image			
Product Model	VIGI PS90	VIGI PS30	VIGI PS20
Battery Capacity	93.6Ah/10.95V Lithium Battery (supports 1/2/3 configurations with 31.2Ah per battery)	31.2Ah@10.8V Ternary Lithium	20.8Ah@10.8V Ternary Lithium
Output	Output1&2: 9~12.6V/2A, Output3: 12V/2A		
Operating Temperature	Charging: -30°C~45°C (With intelligent auxiliary heat), Discharging: -30°C~60°C (With intelligent auxiliary heat)		

Product Type	VIGI Solar Panel	
Product Image		
Product Model	VIGI Solar Panel 90W	VIGI Solar Panel 60W

Product Type	VIGI Solar Mount
Product Image	
Product Model	VIGI 180W Solar Mount

Cameras

Product Image					
Product Model	InSight S385PI	EasyCam C540S	InSight S345-4G	VIGI C540-4G	InSight S345
Lens	1.65mm	4mm	4mm	4mm	2.8/4mm
Max Resolution	8MP (Max. 3840 x 2160)	4MP (Max. 2688 x 1520)	4MP (Max. 2688 × 1520)	4MP (Max. 2560 × 1440)	4MP (Max. 2688 x 1520)
Night Vision	IR	ColorPro	Full-Color	Full-Color	Full-Color
Network	Ethernet	Ethernet	4G/Ethernet, Supports 3× LAN Ports	4G/Ethernet	Ethernet
Max Power Consumption	18W	13.13W	15.02W	13.21W	9.7W

Outdoor Bridge

Product Image	
Product Model	EAP215-Bridge KIT
Coverage	3.1mi (5km)**
Signal Rate	5 GHz: Up to 867 Mbps**
Max.Power Consumption	11.5W

4G WiFi Outdoor Gateways

Product Image	
Product Model	ER703WP-4G-Outdoor
Frequency	• Downlink: 300 Mbps** • Uplink: 50 Mbps**
Max.Power Consumption	14.5W

*For more detailed information on the modular solar power supply system combinations, please consult your local sales team.
**All products are tested in real outdoor environments. Actual range and throughput depend on the transmission power and environmental factors such as wireless interference, obstacles, weather, etc.

Scan for more VIGI products

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