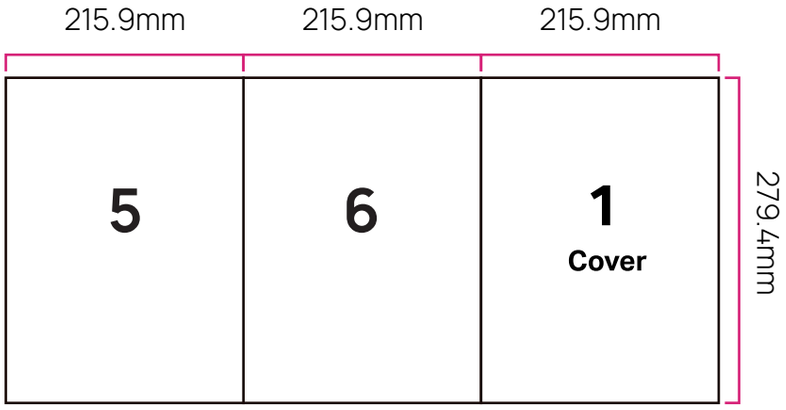
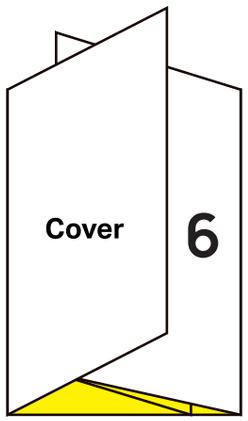
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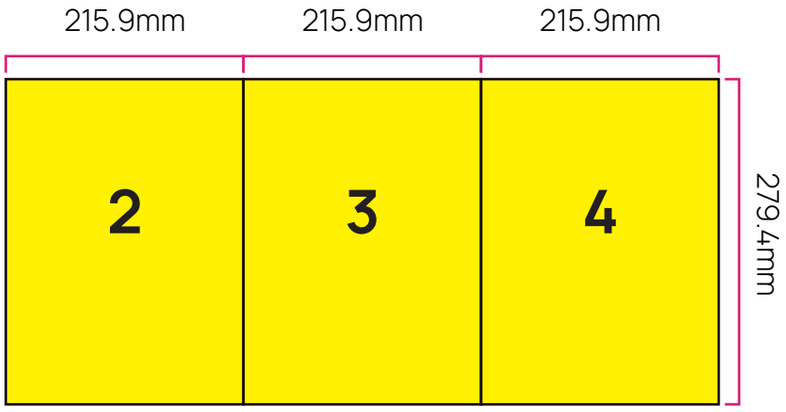
Folding method

front





back



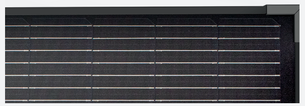
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Longer Standby Time

Works for **7.3** Consecutive Days of Rainfall*

+20%↑ Charging Efficiency with MPPT Controller**

Industrial-Grade Solar Panel



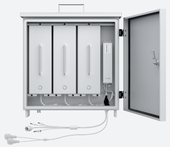
Up to **2x 100** W§

Grade **A+** Solar Panel

25 Year Life§

22%↑ Conversion Efficiency

Automotive-Grade Lithium Battery



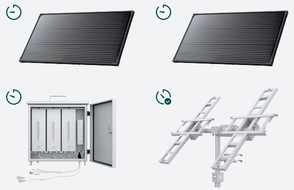
Up to **1024.92** Wh§

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 SP20090, 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 7.3 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.
§Example calculation: For VIGI SP20090 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

Integrated Solar Power Supply Models

Product Type	Intelligent Solar Power Supply System	
Product Image		
Product Model	VIGI SP10030	VIGI SP20090
System Components	VIGI 100W Solar Panel, VIGI PS30	2× VIGI 100W Solar Panel, VIGI PS90, VIGI 200W Solar Mount
Solar Panel Power	100W	2x 100W
Battery Capacity	31.2Ah/10.8V Lithium Battery	93.6Ah/10.95V Lithium Battery (supports1/2/3 configurations with 31.2Ah per battery)
Operating Temperature	Charging: -22°F~113°F (with intelligent auxiliary heat), Discharging: -22°F~140°F (with intelligent auxiliary heat)	
Output	Output1&2: 9~12.6V/2A, Output3: 12V/2A	

Note: These virtual models are combinations of different modular solar power systems. See "System Components" for details.

Cameras

Product Image				
Product Model	InSight S385PI	InSight S345ZI	InSight S345-4G	InSight S345
Lens	1.65 mm	2.7-13.5 mm	4 mm	2.8/4 mm
Max Resolution	8MP (Max. 3840 x 2160)	4MP (Max. 2688 x 1520)	4MP (Max. 2688 x 1520)	4MP (Max. 2688 x 1520)
Night Vision	IR	IR	Full-Color	Full-Color
Network	Ethernet	Ethernet	4G/Ethernet, Supports 3× LAN Ports	Ethernet
Max Power Consumption	18 W	12 W	15.02 W	9.7 W

Outdoor Bridge

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

4G WiFi Outdoor Gateways

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

**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.

Omada by tp-link

Note: Some products and features may still be in development and could differ from the images shown. Availability may vary by region or country. Please refer to your local website for current product offerings and the latest updates. TP-Link is a trademark of TP-Link Systems Inc. or its affiliates. ©2026 TP-Link Systems Inc. All rights reserved.

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Flexible Solution, Non-Stop Power

Solar Power Surveillance Solution



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Why Solar Power Surveillance Solution

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 Solar Power Surveillance 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.



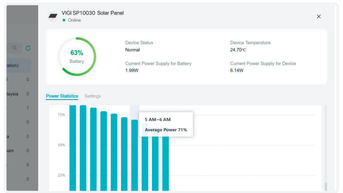
Construction Sites

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 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 web or App.

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



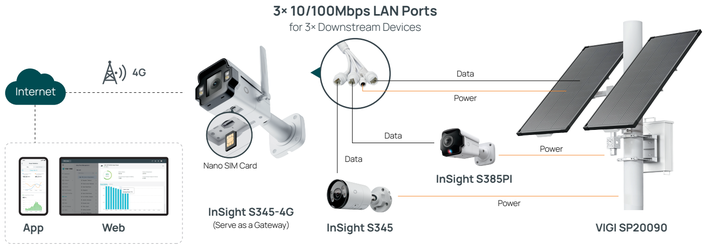
Web



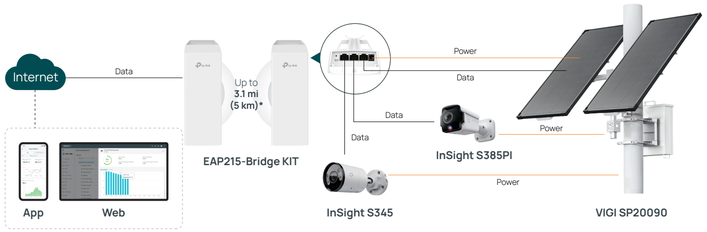
App

Flexible Networking Solution Options

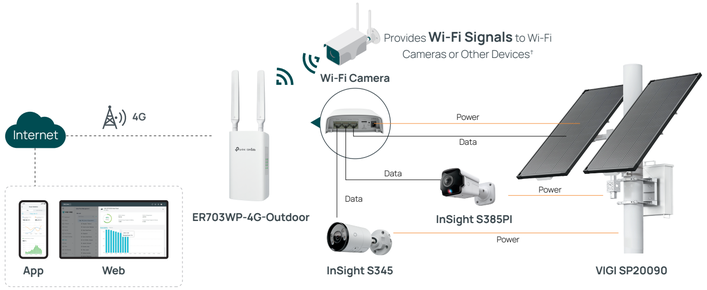
4G Outdoor Camera-Solar Power Solution



Outdoor Wireless Bridge-Solar Power Solution

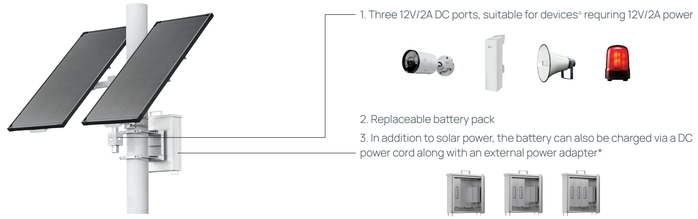


4G Outdoor Gateway-Solar Power Solution



*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



All-Weather Stability, Reduced Maintenance Costs

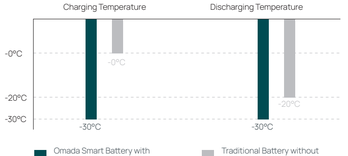
Durable Hardware Design

IP66	-22°F~140°F	-22°F~113°F	ø1.38 in & 60.27 mph	99.4 mph
Weatherproof§	Discharging Temperature**	Charging Temperature**	Hail Resistance§	Wind Resistance§

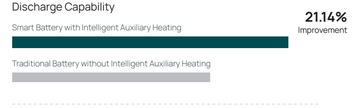


Intelligent Auxiliary Heating Technology

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.
³ 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 -50°C to above 0°C.
§ All data are from experimental tests or theoretical calculations. Actual performance may be influenced by environmental factors.