Improving Support, Reduce Maintenance Costs
An intuitive monitoring website enables you to:
- See a visual map of homeowner sites
- Remotely manage hundreds of sites
- Receive elective system reports
- Locate system issues and remotely diagnose
- Diagnose issues online
- Drill down for the status of individual devices

Add Value for Homeowners
With the SunPower Monitoring System homeowners can:
- See what their solar system produces each day, month, or year
- Optimize their solar investment and save on energy expenses.
- See their energy use and estimated bill savings
- See their solar system’s performance using the SunPower monitoring website or mobile app

SunPower Monitoring Solution, Plug and Play Installation
This complete solution for residential monitoring includes the SunPower® PV Supervisor 5x (PVS5x) which improves the installation process, overall system reliability, and customer experience.
- Compact footprint for improved aesthetics
- Robust cloud connectivity and comprehensive local connectivity
- Flexible configuration of devices during installation
- Consumption metering
- Revenue-grade production metering
- Web-based commissioning app
- Remote diagnostics of PVS5x and inverters
- Durable NEMA 3R enclosure reduces maintenance costs

Robust Cloud Connectivity
Multiple options to maintain optimal connectivity:
- Hardwired Ethernet
- Power Line Communication (PLC)
- Wi-Fi
- Cellular backup

Supports Multiple Inverter Types
Supports SunPower 96-cell AC module systems, DC string inverter systems, and hybrid (DC and AC) systems.
SunPower Monitoring® System | Residential PVS5x

SunPower Monitoring Website

Site Requirements
- Compatible SunPower AC Modules (number supported per PVS5x): SunPower 96-cell AC Modules (85)
- Compatible String Inverters (number supported per PVS5x): Fronius (10), SMA (10), ABB (30)
- Internet Access: High-speed Internet access accessible router or switch
- Power: 240 VAC, 50 or 60 Hz

Operating Conditions
- Temperature: -30°C to +60°C (-22°F to +140°F)
- Humidity (maximum): 95%, non-condensing

Communication
- RS-485: Inverters and meters PLC for 96-cell AC modules
- Integrated Metering: One channel of revenue-grade production metering ANSI C12.20 Class 0.5 and two channels of net metering
- Ethernet: WAN and LAN ports
- PLC: Integrated HomePlug AV standard communication to PLC devices over AC wiring
- Wi-Fi: 802.11b/g/n
- Cellular: 3G UMTS
- ZigBee: Home automation, inverter communications, meter readings
- USB Type A: Supports additional communications up to 0.5 Amps (for example, Wi-Fi, Bluetooth®)
- Memory: 2 GB flash, 1 GB RAM
- Data Storage: 60 days
- Upgrades: Automatic firmware upgrades

Mechanical
- Weight: 2.5 kg (5.5 lbs)
- Dimensions: 34.5 cm x 20.6 cm x 9.3 cm (13.6 in x 8.1 in x 3.6 in)
- Enclosure Rating: Type 3R

Homeowner Web and Mobile Device Support
- Homeowner Website: monitor.us.sunpower.com
- Partner Website: sunpowermonitor.com/partner
- Browsers: Firefox, Safari, Chrome, Internet Explorer
- Mobile Devices: iPhone®, iPad®, and Android™

Warranty and Certifications
- Warranty: 10-year Limited Warranty
- Certifications: UL, cUL, EN60950, EN61326, FCC Part 15 (Class B)

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