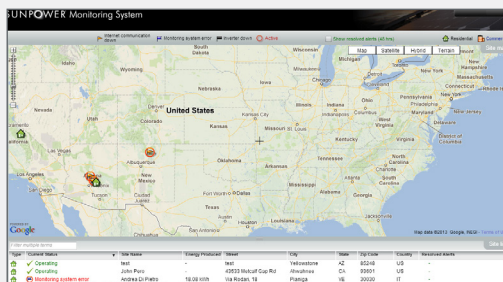# SunPower Monitoring® System | Residential PVS5x

Improve 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

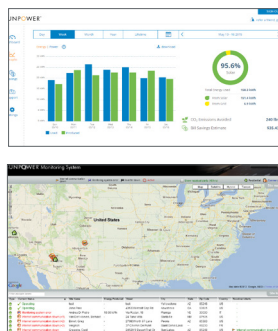Multiple options to maintain optimal connectivity:

- 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®

SunPower Monitoring® System| Residential PVS5x
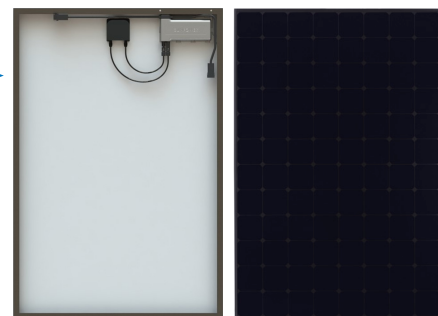
SunPower Monitoring Website

PVS5x

Multiple communication options include Ethernet, PLC, Wi-Fi, and cellular

Supports SunPower 96-cell AC modules, DC string inverters, and hybrid (DC and AC) systems

SunPower AC Modules

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

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™
Homeowner App	1. Create account online at: monitor.us.sunpower.com. 2. On a mobile device, download the SunPower Monitoring app from Apple App Store℠ or Google Play™ store. 3. Sign in using account email and password.

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

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

FCC ID: YAW513402   ITE: E477122

Datasheet

SUNPOWER®