

# SOLARBRIDGE MANAGEMENT SYSTEM



- REAL-TIME INSIGHT INTO MODULE PERFORMANCE
- READILY ACCESSIBLE ON-SITE HARDWARE
- 24/7 WEB-BASED MONITORING
- HIGH-RELIABILITY COMMUNICATIONS
- SMART GRID-READY, OPEN ARCHITECTURE
- ENABLES RECURRING REVENUE STREAM

## Maximize Uptime. Minimize LCOE.

Comprehensive insight into module-level operating information is a powerful tool for maintaining high levels of PV system performance. If shortfalls in output due to equipment faults, installation errors or environmental factors go unnoticed, the energy production and resulting financial hit can be significant, especially when performance-based incentives are in place.

The SolarBridge Management System closely tracks the operating performance of every SolarBridge Pantheon™-enabled AC module. Comprising the SolarBridge Power Manager and SolarBridge Power Portal, the complete system provides installers and technicians with the insight they need to quickly identify and resolve site issues if they arise.

## SolarBridge Power Manager

The SolarBridge Power Manager is an on-site gateway device that transmits information over Power Line Communications (PLC) with SolarBridge Pantheon-enabled AC modules. Its outdoor-rated enclosure is designed for mounting next to the modules' load center, enabling installers to readily access the Power Manager during installation and service visits.

The Power Manager can even communicate with the modules before they are connected to the grid. This enables a site crew to identify and resolve potential installation issues before leaving a newly constructed site.



The Power Manager's connectivity options and user interface were designed with flexibility in mind. Its RJ45 jack provides built-in networking to a local broadband router. Alternatively, an optional Wireless Kit connects the Power Manager to the router when running Ethernet cable is impractical.

Similarly, the Power Manager's simple, two-button hardware interface and built-in display provide access to detailed site and module diagnostics. A single-site version of the SolarBridge Power Portal is also available from the Power Manager's embedded web server, providing on-site technicians with a rich, graphical user interface for system commissioning and troubleshooting even at sites with no internet access.

## SolarBridge Power Portal

The SolarBridge Power Portal is a hosted software application that aggregates the operating data from all Pantheon-enabled modules across all sites. With role-specific interfaces, the Power Portal provides context-specific site information to multiple audiences.



System owners can access current and historical performance data on their PV array along with its environmental benefits. Module manufacturers gain direct visibility into their installed base, allowing them to closely monitor the field performance of their AC modules over time.

Installers can effectively manage all of their customer systems through the Power Portal. Multi-site dashboards spotlight any sites needing attention, while analytical troubleshooting views allow technicians to quickly identify corrective actions. Commissioning a new site is easy with the Power Portal's intuitive graphical user interface for site layout and design.

The Power Portal enables installers to expand their offerings with easy-to-implement monitoring solutions, generating recurring revenue from installations. Open by design, its standards-based architecture supports extensibility and integration with third-party monitoring systems and other applications, providing installers and system integrators with the flexibility they need to grow their business.

### POWER MANAGER TECHNICAL SPECIFICATIONS

#### COMMUNICATIONS

With AC Modules	<b>Power Line Communications (PLC)</b>
LAN	<b>Ethernet with 10/100Base-T router; Auto-sensing; Auto-negotiating</b>

#### POWER REQUIREMENTS

AC Power Supply	<b>Direct wire to service panel breaker or AC outlet</b>
DC Power Supply	<b>2.5mm diameter, Polarity Center pin positive (+)</b>
Power Consumption	<b>~0.1 amp</b>

#### MECHANICAL SPECIFICATIONS

Dimensions	<b>13.3"L x 7.9"W x 3.5"D</b>
Weight	<b>3.5 lbs</b>
Ambient Temperature Range	<b>-20°C to +50°C (-4°F to 122°F)</b>
Cooling	<b>Natural Convection; No Fans</b>
Enclosure Environmental Rating	<b>Type 3R</b>

#### OTHER

Compliance	<b>UL60950-1 ITE; UL60950-22 Outdoor Use; FCC Part 15 Class B</b>
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## POWER MANAGER

### FEATURES

- **Outdoor-rated enclosure**
- **High-reliability power line communications**
- **Wired and wireless networking**
- **Onboard display and two-button interface**
- **USB expansion port**

## POWER PORTAL

### FEATURES

- **Module-level operating information**
- **Detailed dashboards with actionable insight**
- **24/7 Web-based access**
- **Proactive alerts**
- **Detailed analytics**