

Enecsys enables OPTIMAL SOLAR SOLUTIONS

intelligent reliable power

Enecsys Monitoring System

Enecsys' comprehensive performance monitoring of the PV array is highly enhanced as the performance of each module can be viewed separately, a capability not available with string inverters. This uniquely provides users and installers with real-time, detailed information to ensure that the solar system performance is optimized over the life of the installation.

The information can be used to promptly detect performance issues and pinpoint the exact location of the problem, which provides precise guidance for required maintenance, unlike with string inverter systems. The micro inverter is equipped with a robust built-in wireless communication system that connects to the Internet via the Enecsys Gateway to provide detailed performance information online from anywhere.

The Enecsys Monitoring System has a user-friendly graphic interface that provides the following information:

- Total energy generated
- Individual panel performance
- Historical pattern of energy generation



The Enecsys iPhone app makes monitoring of photovoltaic modules even simpler and more convenient for installers and homeowners alike. Users can monitor multiple sites from anywhere in the world, accessing historical and real-time data.



The Enecsys Gateway

Each installed micro inverter sends a signal to the Enecsys Gateway that then broadcasts the signal to the Enecsys Monitoring System via the Internet. The Gateway provides at-a-glance status of the solar installation, including the number of inverters online, communication link status, and Gateway IP address.



The Enecsys Repeater/Double Repeater

In some cases where the distance between the Gateway and micro inverters is further than the signal can travel, Enecsys Repeaters and/or Double Repeaters are installed to bolster the strength of the transferring signal. Installed near the rooftop system, Repeaters capture the signal more clearly, enhance it, and then relay it back to the Gateway.



ZigBee Communication

The wireless standard of choice for devices in Smart Home and Smart Energy applications is ZigBee Communications. Enecsys is leading the charge in extending ZigBee onto the rooftop for grid-connected solar PV systems. Each Enecsys micro inverter contains built-in wireless ZigBee technology to communicate detailed information on the performance of each solar module. The micro inverter also connects to a ZigBee-to-IP gateway that enables monitoring from any Internet device.

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