

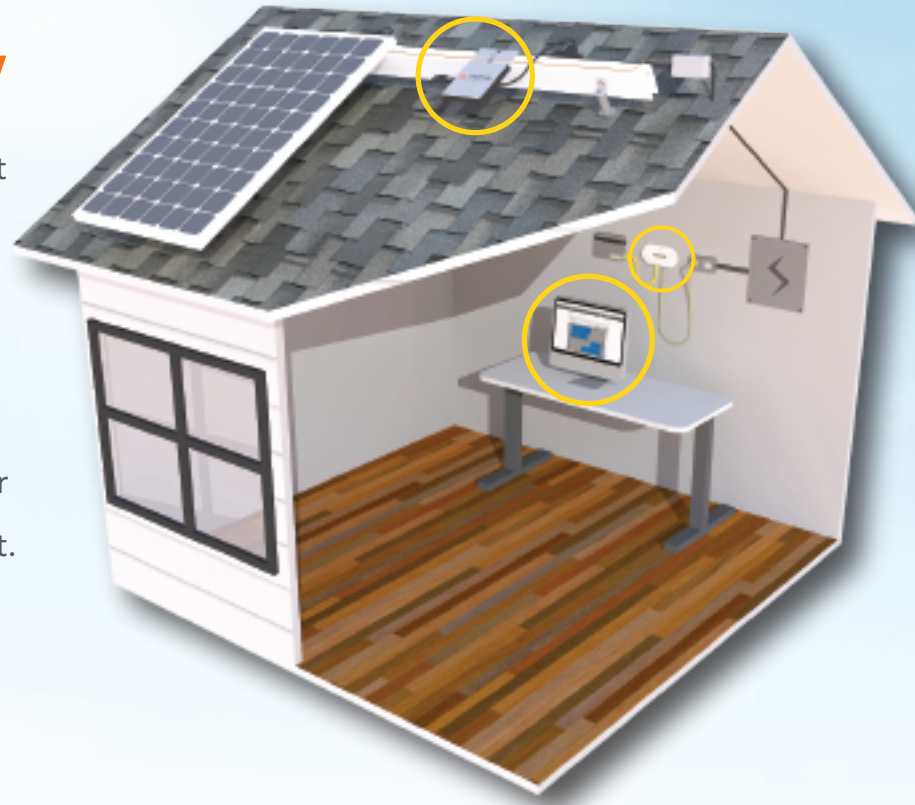
# Welcome

to the next phase of solar

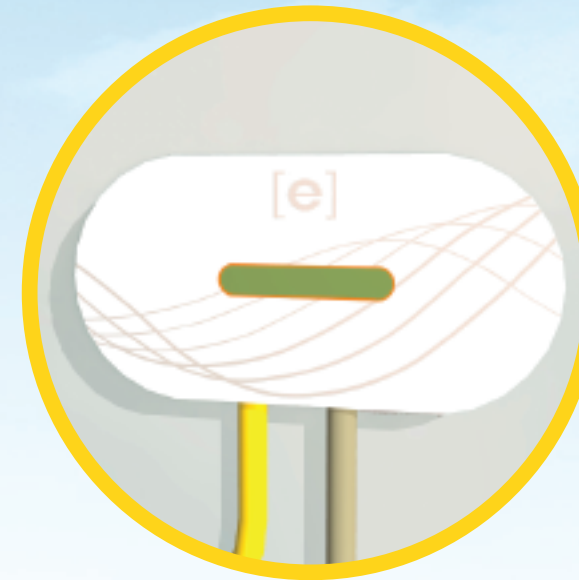


## System Overview

Enphase provides the world's most advanced inverter technology for solar systems. Our solution combines innovations in power electronics, networking and web-based software, to make solar systems smarter and more efficient.



## 2 Envoy Gateway



### Simplified Networking

The Envoy Communications Gateway monitors the health and performance of each microinverter and solar module, and it sends this information to the system owner and installer via the Internet.

#### Features

- Plug & Play setup
- Communicates over existing electrical wires
- Connects to standard broadband router

## 1 Enphase Microinverter



### Maximum Performance

Enphase Microinverters are installed beneath the solar modules on the roof, and they convert the maximum power from each module into standard AC electricity.

#### Features

- World's most efficient microinverter
- Supports low-light and low-voltage operation
- Innovative cabling for fast and easy installation

## 3 Enlighten Software



### Advanced Monitoring

The Enlighten web-based software provides system owners and installers with detailed performance information and analytics about the solar system, as well as at-a-glance views and automated alerts.

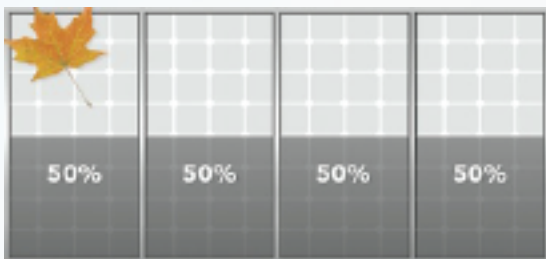
#### Features

- Included at no additional cost
- Multiple viewing modes, including mobile
- Automatically identifies and diagnoses issues

## STRING INVERTER SYSTEM

## ENPHASE ENERGY SYSTEM

### PERFORMANCE



- » Entire system affected by one module
- » Susceptible to soiling, shading, and module defects



- » All modules controlled independently
- » Resilient to environmental factors

### RELIABILITY

- » 5-10 year warranty
- » Inverter outage affects entire system
- » Problems require special service visit

- » 25-year warranty
- » Inverter outage affects small fraction of system
- » Problems solved via remote troubleshooting



### SAFETY

- » Requires high voltage DC wiring
- » Poses fire risks by DC arc faults
- » Cannot de-energize during daytime



- » No high voltage DC wiring
- » No risk of DC arc faults
- » Automatically de-energizes when utility power is removed

### AESTHETICS

- » Limited flexibility due to DC string design
- » Requires DC conduits, combiners and disconnects
- » Separate installation of inverter unit

- » Flexible placement and sizing of systems
- » AC wiring can run within building
- » Inverters installed directly under module

*"The Enphase system is, in some sense, the most important technology breakthrough solar has ever seen."*

**Dan Kammen, UC Berkeley,**  
Director of Renewable and Appropriate Energy Lab

