# Welcome to the next phase of solar





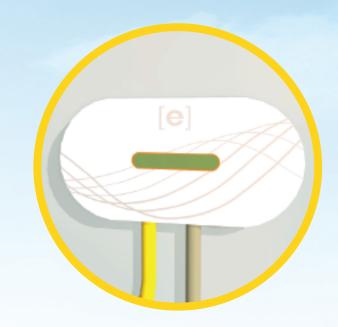


# **System Overview**

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

#### **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

