

The Enphase Energy System—a fully integrated home electrification platform

Since the introduction of our first pioneering microinverter in 2009, Enphase has created the platform to support the electrification of the home. Every component of the Enphase Energy System delivers modularity, adaptability, and durability to ensure your home energy system is future-proof as new technologies and devices become part of the electrified home.

Our latest offerings, the IQ Energy Router and IQ Energy Router+, further electrify the home by delivering intelligent home energy management to seamlessly integrate Enphase solar and battery systems with heat pumps and EV chargers. Now the Enphase Energy System can utilize self-learning algorithms and forecasts to run your devices at optimal times to gain more energy independence and reduce what you need to buy from the grid.

The Enphase Energy System, now with heat pump and EV charger integration.

	Solar	Solar & battery	Home energy management
Save money	•	•	•
Reduce carbon footprint	•	•	•
Manage everything from one app	•	•	•
Maximize self-consumption		•	•
NEW Integrate heat pumps and EV chargers			•

Enphase system components

IQ7/8 Series Microinverter
IQ Gateway

IQ7/8 Series Microinverter
IQ Gateway
IQ Battery

IQ7/8 Series Microinverter
IQ Gateway
IQ Battery
IQ Energy Router/Router+

Integrating heat pumps and EV chargers with the Enphase Energy System

Maximize self-consumption

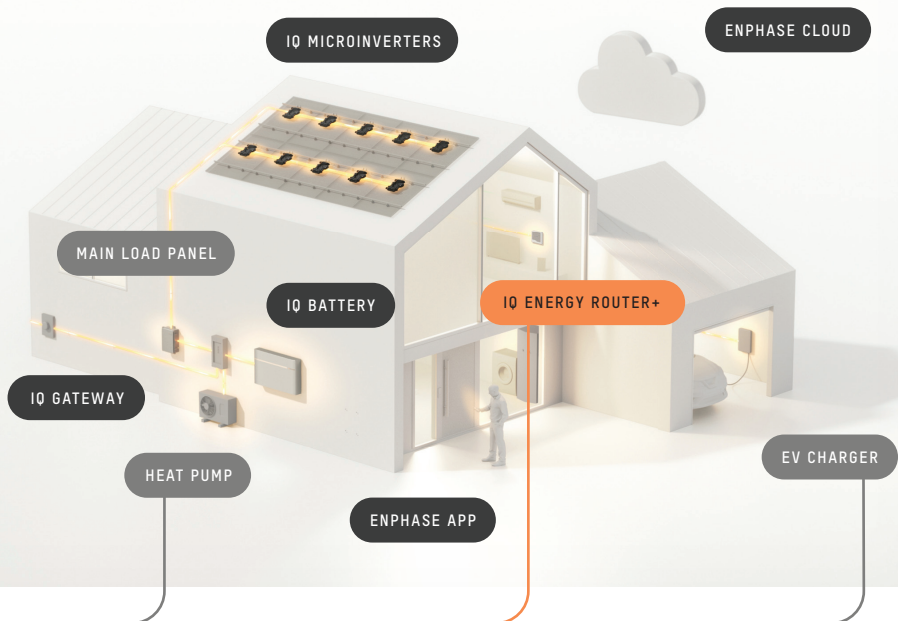
Utilize self-learning algorithms and forecasts to run your devices at optimal times to gain more energy independence.

Minimize energy costs

Run devices at optimal times to reduce what you need to buy from the grid.

Reduce your CO₂ footprint

Use more of your clean solar energy to power your appliances and reduce emissions.



Save on your heating bill

Connect your heat pump to optimize heating schedules and use more of the energy generated by your solar system to heat your home.

Connect energy devices

Add heat pumps and EV chargers to the Enphase Energy System, and manage it all from the Enphase App.

Green EV charging

Charge your electric vehicle with solar power whenever possible, reducing reliance on fossil fuel-based charging.

IQ Energy Router packages

IQ Energy Router

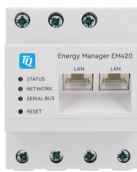
For EV charger-only integrations.



Central hub to monitor and control EV chargers. Connects to Enphase solar and battery systems via the IQ Gateway. Configured to comply with local grid interconnection rules such as feed-in limits, even if the internet connection is temporarily unavailable. Simple provisioning process integrated in the Enphase Installer App.

IQ Energy Router+

For heat pump-only integrations and heat pump + EV charger integrations.



IQ Energy Router

Central hub that monitors and controls devices like heat pumps and EV chargers. Connects to the Enphase solar and battery systems via the IQ Gateway.

Sub Meter

Accurately measures power consumption for every supported heat pump model.

SG Ready Relay

Controls the state of the heat pump for energy-optimized usage, such as scheduling heating times according to availability of solar energy.

All Enphase Home Energy Management installations require IQ7 or IQ8 Series Microinverters, at least one IQ Battery, IQ Gateway, and either IQ Energy Router or IQ Energy Router+.

Comprehensive device connectivity

Enphase supports market-leading EV charger and heat pump manufacturers utilizing OCPP and SG Ready industry standards.

Supported EV chargers and heat pumps

List of supported devices is continuously extended.

EV CHARGERS



- Vestel Home Smart (EVC04 models)
- Wallbox Pulsar + (model code PLP1)
- ABL eMH2 (controller wallboxes)¹

HEAT PUMPS



All SG Ready models from select manufacturers:

- Viessmann
- Vaillant
- Nibe
- Tecalor
- Stiebel Eltron
- Dimplex

¹ ABL product numbers: 2W2240, 2W2241