

Enphase Beats the Heat in Valley of the Sun

CHALLENGE

Provide homeowners with reliable inverter technology capable of withstanding high desert temperatures

SOLUTION

Utilize Enphase M250 Microinverters, robustly designed for maximum production despite outside climates

RESULT

The 12.5kW system offsets 100% of the home's electricity bills



“Enphase technology doesn’t just survive in hot climates - it thrives.”

—John Black
Owner
Black Platinum Solar

As the Arizona sun sizzles over the solar-covered roof of Paradise Valley homeowner John Holliman, Enphase Microinverters stay cool under the pressure. Knowing his system continues to perform optimally, Holliman can watch his energy bills melt away.

A Solar Hot Spot

In states like Arizona, where the relentless summer heat forces air-conditioning use to new levels, solar is a proven solution to help homeowners drastically cut high-energy consumption costs. Local installer Black Platinum Solar and Electric has capitalized on Arizona's solar demand by providing their customers with reliable PV technology that can handle the heat.

“When Black Platinum Solar and Electric began installing solar in 2008, we used central inverter systems for our first three installations,” said John Black, owner of Black Platinum Solar and Electric. “But quickly after that we made the decision



Scorching rooftop temperatures pose no threat to Enphase Microinverters, which can carry out maximum production despite outside forces.

to exclusively install the Enphase System because it was the best choice for our customers. From the moment we first installed Enphase Microinverters we never looked back.”

The current Enphase microinverter generation underwent a rigorous one million hours of testing to validate product reliability before release. Both the M215 and M250 microinverters handle heat stress with internally equipped, thermal overload protection mechanisms that enable units to recover after extreme thermal events.

Eliminating Excess Heat

Arizona is one of the hottest regions in the United States, with inhospitable winds, dust, and heat. While the number on an outside thermostat in the shade can reach up to 118 degrees fahrenheit in Holliman’s neighborhood, the roofs are even hotter – sometimes peaking at 140 degrees.

Unlike string inverters, which generate excess heat during power production, Enphase Microinverters maintain a stable internal temperature that enables production to remain constant.

“Through my experience of installing and monitoring microinverter performance during the summer months, I have found that Enphase technology not only can take the heat, but also maximizes power production during the hottest periods of the day,” said Black.

To learn more about the benefits of the Enphase System, visit enphase.com.

INSTALLATION SUMMARY

Client **John and Marianna Holliman**

Location **Paradise Valley, AZ**

Installer **Black Platinum Solar and Electric**

System Size **12.5kW**

Microinverters **Enphase M250**

Modules **LG 290W**

“This is an environment where Enphase microinverters have continued to prove themselves as durable and reliable technology,” added Black.

New and Improved

John Holliman’s home received an energy upgrade when it added solar, but Holliman gained the best of the best when he requested Enphase M250 Microinverters. Greater energy production, more reliability and intelligent monitoring make Enphase the #1 inverter supplier in the U.S.

MyEnlighten, Enphase’s software-based monitoring, allows Holliman to track the health and production of his system as often as he likes.

Holliman’s new Enphase System has covered his electricity bills by 100%, proving an investment in solar will create long-term benefits.

About Enphase Energy

The Enphase System revolutionizes solar power generation with industry-leading technology innovation. Enphase’s proven microinverter technology maximizes production of each module, which works together with advanced communications hardware and an intelligent software platform to deliver a reliable, high-performance solar array.