

# 250W Micro Inverter





## Overview

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What is a dual stage 250 W microinverter?

This application note describes the design and performance of a dual stage 250 W microinverter characterized by maximum power point tracking and active and reactive power control capability. This is the main reason why the power conversion is based on a dual stage topology rather than the more common single-stage one.

What is the Enphase M250 microinverter™?

The versatile Enphase M250 Microinverter™ performs in both residential and commercial solar PV installations and is compatible with both 60-cell and 72-cell modules. With its all-AC approach and integrated grounding, the M250 delivers increased energy harvest and reduces design and installation complexity.

How many diodes are in a microinverter?

The blocking diodes are two STPS1545, 15 A, 45 V Schottky diodes while the freewheeling diodes are two STPSC606, 6 A, 600 V silicon carbides. This section of the application note is intended to provide information on the main circuits adopted in the MIC design. The two main power processing stages of the microinverter are shown in Figure 10.

What is a 250 W grid connected DC-AC system?

This application note describes the implementation of a 250 W grid connected DC-AC system suitable for operation with standard photovoltaic (PV) modules. The design is associated to the STEVAL-ISV003V1 demonstration board which demonstrates the possibility of implementing a full microinverter solution (MIC) using STMicroelectronics products.



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Especially for regions with unstable grids or high solar potential, the microinverter 250w offers a way to optimize energy yield in harsh or variable conditions. Oddly enough, many large-scale ...

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