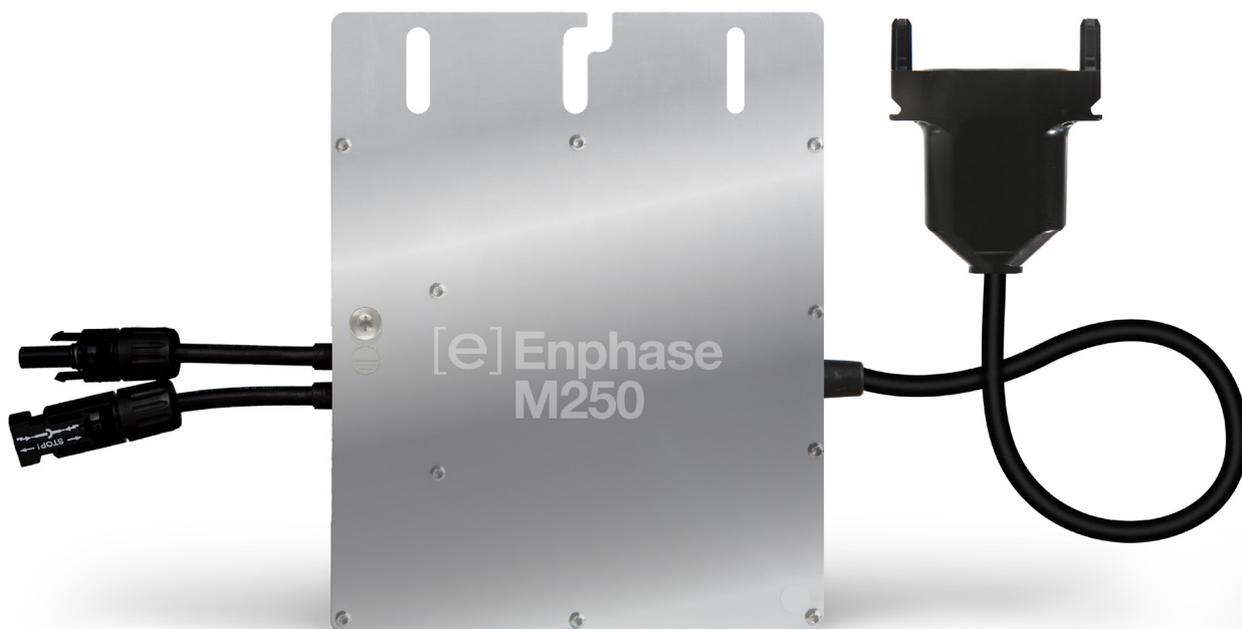


# Enphase® M250



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The **Enphase Energy Microinverter System** improves energy harvest, increases reliability, and dramatically simplifies design, installation, and management of solar power systems.

The Enphase System includes the microinverter, the Envoy Communications Gateway,<sup>™</sup> and Enlighten,<sup>®</sup> Enphase's monitoring and analysis software.

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## PRODUCTIVE

- Optimised for higher-power modules
- Maximises energy production
- Minimises impact of shading, dust, and debris

## RELIABLE

- 4th-generation product
- More than one million hours of testing
- System availability greater than 99.8%

## SMART

- Quick and simple design, installation, and management
- 24/7 monitoring and analysis

## SAFE

- Extra low-voltage DC reduces fire risk
- No single point of system failure
- Easy installation with Engage Cable

<b>INPUT DATA (DC)</b>	<b>M250-60-230-S22</b>
Recommended input power (STC)	210 - 310 W
Maximum input DC voltage	48 V
Peak power tracking voltage	27 V - 39 V
Operating range	16 V - 48 V
Min/Max start voltage	22 V / 48 V
Max DC short circuit current	15 A
Max input current	10 A

<b>OUTPUT DATA (AC)</b>	
Peak output power	258 W
Rated output power	250 W
Rated output current	1.09 A
Nominal voltage	230 V
Nominal frequency	50.0 Hz
Power factor	>0.95
Maximum units per 20 A branch circuit	14 (Ph + N), 42 (3Ph + N)
Maximum units per cable section	14 (Ph + N), 24 (3Ph + N)

<b>EFFICIENCY</b>	
EN 50530 (EU) efficiency	95.7%
Static MPPT efficiency (weighted, reference EN50530)	99.6%
Dynamic MPPT efficiency (fast irradiation changes, reference EN50530)	99.3%
Night time power consumption	0.055 W

<b>MECHANICAL DATA</b>	
External operating temperature range (ambient)	-40°C to +65°C
Internal operating temperature range	-40°C to +85°C
Enclosure environmental rating	Outdoor - IP67
Connector type	MC4
Dimensions (WxHxD)	179 mm x 217 mm x 28 mm (with bracket)
Weight	1.66 kg
Cooling	Natural convection - No fans

<b>FEATURES</b>	
Compatibility	Compatible with 60-cell PV modules.
Communication	Power line
Monitoring	Enlighten Manager and MyEnlighten monitoring options
Transformer design	High frequency transformers, galvanically isolated
Compliance	AS4777, C10/11, CEI_0-21, EN50438, EN62109-1, EN62109-2, ERDF-NOI-RES_13E_V5, G59/2, G83/2, VDE-0126-1-1 + A1, VDE AR-N 4105

To learn more about Enphase microinverter technology, visit [enphase.com/au](http://enphase.com/au).