

# Enphase® M215



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.

## PRODUCTIVE

- Maximum energy production
- Resilient to dust, debris, and shading
- Performance monitoring

## RELIABLE

- System availability greater than 99.8%
- No single point of system failure

## SMART

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

## SAFE

- Low-voltage DC
- Reduced fire risk

<b>INPUT DATA (DC)</b>	<b>M215-60-230-S22</b>
Recommended input power (STC)	190 - 270 W
Maximum input DC voltage	45 V
Peak power tracking voltage	22 V - 36 V
Operating range	16 V - 36 V
Min./Max. start voltage	22 V / 45 V
Max. DC short circuit current	15 A
Max. input current	10.5 A

<b>OUTPUT DATA (AC)</b>	
Rated output power	215 W
Nominal output current	0.94 A
Nominal voltage/range	230 V
Nominal frequency/range	50.0 Hz
Power factor	>0.95
Maximum units per branch circuit	17 (Ph + N), 27 (3Ph + N)

<b>EFFICIENCY</b>	
EN 50530 (EU) efficiency	95.4%
Static MPPT efficiency (weighted, reference EN50530)	99.6%
Dynamic MPPT efficiency (fast irradiation changes, reference EN50530)	99.3%
Night time power consumption	50 mW

<b>MECHANICAL DATA</b>	
Ambient temperature range	-40°C to + 65°C
Operating temperature range (internal)	-40°C to + 85°C
Dimensions (WxHxD)	172x164x25 mm
Weight	1.6 kg
Cooling	Natural convection - No fans
Enclosure environmental rating	Outdoor - IP67

<b>FEATURES</b>	
Compatibility	Pairs with most 60-cell PV modules
Communication	Power line
Monitoring	Free lifetime monitoring via Enlighten software
Transformer design	High frequency transformers, galvanically isolated
Compliance	VDE-0126-1-1, DK5940, C10/11, EN62109-2, CEI_0-21, EN50438, G83/1-1, AS4777

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