

Enphase® **M215** (original)



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,[™] and Enlighten,[®] 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

INPUT DATA (DC)	M215-60-230-S22
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

OUTPUT DATA (AC)	
Peak output power	225 W
Rated (continuous) output power	215 W
Nominal output current	0.94
Nominal voltage	230 V
Nominal frequency	50.0 Hz
Power factor	>0.95
Maximum units per 20 A branch circuit	17 (Ph + N), 51 (3Ph + N)
Maximum units per cable section	17 (Ph + N), 27 (3Ph + N)

EFFICIENCY	
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

MECHANICAL DATA	
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

FEATURES	
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, G83/1-1, G83/2, VDE-0126-1-1, VDE AR-N 4105

To learn more about Enphase microinverter technology, visit enphase.com.

