MICROINVERTER — M215

enphase® ENERGY

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 “Plug & Play” Engage Cable, the Envoy Communications Gateway, and Enlighten, Enphase’s monitoring and analysis software.

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

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

CE

TECHNICAL CHARACTERISTICS

Input Data (DC)	M215-60-230-S22-EU
Recommended input power range (STC)	190 – 260W
Maximum input DC voltage	45V
Peak power tracking range	22V – 36V
Operating range	16V – 36V
Min./Max. start voltage	22V/45V
Max. DC short circuit current	15A
Max. input current	10.5A
Output Data (AC)	
Maximum output power	215W
Nominal output current	934mA
Nominal voltage	230V
Nominal frequency	50.0Hz
Power factor	>0.95
Maximum units per 20A branch circuit	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	50mW
Mechanical Data	
Ambient temperature range	-40ºC to +65ºC
Operating temperature range (internal)	-40ºC to +85ºC
Dimensions (WxHxD) mm without mounting bracket	172x164x25 (6.8”x6.5”x1.0”)
Weight	1.6kg (3.5lbs)
Cooling	Natural convection – no fans
Enclosure environmental rating	Outdoor – IP67
Features	
Communication	Power line
Monitoring	Free lifetime monitoring via Enlighten software
Compliance	VDE-0126-1-1, DK5940, C10/11, EN62109-2, CEI_0-21, EN50438, G83/1-1

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