

Enphase **M215**



The **Enphase M215 Microinverter™** with integrated ground delivers increased energy harvest and reduces design and installation complexity with its all-AC approach. With the advanced M215, the DC circuit is isolated and insulated from ground, so **no Ground Electrode Conductor (GEC) is required for the microinverter**. This further simplifies installation, enhances safety, and saves on labor and materials costs.

The Enphase M215 integrates seamlessly with the Engage Cable™, the Envoy Communications Gateway™, and Enphase Enlighten™ monitoring and analysis software.

PRODUCTIVE

- Maximizes energy production
- Minimizes impact of shading, dust, and debris
- No single point of system failure

SIMPLE

- No GEC needed for microinverter
- No DC design or string calculation required
- Easy installation with Engage Cable

RELIABLE

- More than 1 million hours of testing and millions of units shipped
- Industry-leading warranty, up to 25 years

INPUT DATA (DC)		M215-60-2LL-S22-IG, M215-60-2LL-S25-IG	
Commonly used module pairings ¹		190 - 270+ 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	
OUTPUT DATA (AC)		@208 VAC	@240 VAC
Peak output power		225 W	225 W
Rated (continuous) output power		215 W	215 W
Nominal output current		1.03 A (A rms at nominal duration)	0.9 A (A rms at nominal duration)
Nominal voltage/range		208 V / 183-229 V	240 V / 211-264 V
Nominal frequency/range		60.0 / 57-61 Hz	60.0 / 57-61 Hz
Extended frequency range ²		57-62.5 Hz	57-62.5 Hz
Power factor		>0.95	>0.95
Maximum units per 20 A branch circuit		25 (three phase)	17 (single phase)
Maximum output fault current		850 mA rms for 6 cycles	850 mA rms for 6 cycles
EFFICIENCY			
CEC weighted efficiency, 240 VAC		96.5%	
CEC weighted efficiency, 208 VAC		96.5%	
Peak inverter efficiency		96.5%	
Static MPPT efficiency (weighted, reference EN50530)		99.4 %	
Night time power consumption		65 mW max	
MECHANICAL DATA			
Ambient temperature range		-40°C to +65°C	
Dimensions (WxHxD)		171 mm x 173 mm x 30 mm (without mounting bracket)	
Weight		1.6 kg (3.4 lbs)	
Cooling		Natural convection - No fans	
Enclosure environmental rating		Outdoor - NEMA 6	
Connector type		M215-60-2LL-S22-IG: MC4 M215-60-2LL-S25-IG: Amphenol H4	
FEATURES			
Compatibility		Compatible with 60-cell PV modules.	
Communication		Power line	
Integrated ground		The DC circuit meets the requirements for ungrounded PV arrays in NEC 690.35. Equipment ground is provided in the Engage Cable. No additional GEC or ground is required. Ground fault protection (GFP) is integrated into the microinverter.	
Monitoring		Enlighten Manager and MyEnlighten monitoring options	
Compliance		UL1741/IEEE1547, FCC Part 15 Class B, CAN/CSA-C22.2 NO. 0-M91, 0.4-04, and 107.1-01	

1. Suggestion only. Inverter self-limits DC inputs. Visit <https://enphase.com/en-us/support/module-compatibility> to determine module size compatibility.

2. Frequency ranges can be extended beyond nominal if required by the utility

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

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