

# Enphase® M215 (original)



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

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

## PRODUCTIVE

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

## SIMPLE

- 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

<b>INPUT DATA (DC)</b>		<b>M215-60-2LL-S22/S23 and M215-60-2LL-S22-NA/S23-NA (Ontario)</b>	
Recommended input power (STC)	190 - 270 W		
Maximum input DC voltage	45 V		
Peak power tracking voltage	22 - 36 V		
Operating range	16 - 36 V		
Min./Max. start voltage	22 V / 45 V		
Max. DC short circuit current	15 A		
<b>OUTPUT DATA (AC)</b>		<b>@208 VAC</b>	<b>@240 VAC</b>
Peak output power	225 W	225 W	225 W
Rated (continuous) output power	215 W	215 W	215 W
Nominal output current	1.0 A (Arms at nominal duration)	0.9 A (Arms at nominal duration)	0.9 A (Arms at nominal duration)
Nominal voltage/range	208 / 183-229 V	240 / 211-264 V	240 / 211-264 V
Extended voltage/range	179-232 V	206-269 V	206-269 V
Nominal frequency/range	60.0 / 59.3-60.5 Hz	60.0 / 59.3-60.5 Hz	60.0 / 59.3-60.5 Hz
Extended frequency range	57-60.5 Hz	57-60.5 Hz	57-60.5 Hz
Power factor	>0.95	>0.95	>0.95
Maximum units per 20 A branch circuit	25 (three phase)	17 (single phase)	17 (single phase)
Maximum output fault current	1.05 Arms, over 3 cycles; 1.04 Arms over 5 cycles		
<b>EFFICIENCY</b>			
CEC weighted efficiency	96.0%		
Peak inverter efficiency	96.3%		
Static MPPT efficiency (weighted, reference EN50530)	99.6%		
Dynamic MPPT efficiency (fast irradiation changes, reference EN50530)	99.3%		
Night time power consumption	46 mW		
<b>MECHANICAL DATA</b>			
Ambient temperature range	-40°C to + 65°C		
Dimensions (WxHxD)	17.3 cm x 16.4 cm x 2.5 cm (6.8" x 6.45" x 1.0") without mounting bracket		
Weight	1.6 kg (3.5 lbs)		
Cooling	Natural convection - No fans		
Enclosure environmental rating	Outdoor - NEMA 6		
<b>FEATURES</b>			
Compatibility	Compatible with 60-cell PV modules		
Communication	Power line		
Monitoring	Enlighten Manager and MyEnlighten options		
Compliance	UL1741/IEEE1547, FCC Part 15 Class B CAN/CSA-C22.2 NO. 0-M91, 0.4-04, and 107.1-01		

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

