

# 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 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 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

| <b>INPUT DATA (DC)</b>        | <b>M215-60-2LL-S22-IG, M215-60-2LL-S25-IG</b> |
|-------------------------------|---|
| Recommended input power (STC) | 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  |

| <b>OUTPUT DATA (AC)</b>               | <b>@208 VAC</b>                    | <b>@240 VAC</b>                   |
|---------------------------------------|------------------------------------|-----------------------------------|
| 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*             | 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<br>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  |

\* Frequency ranges can be extended beyond nominal if required by the utility

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

