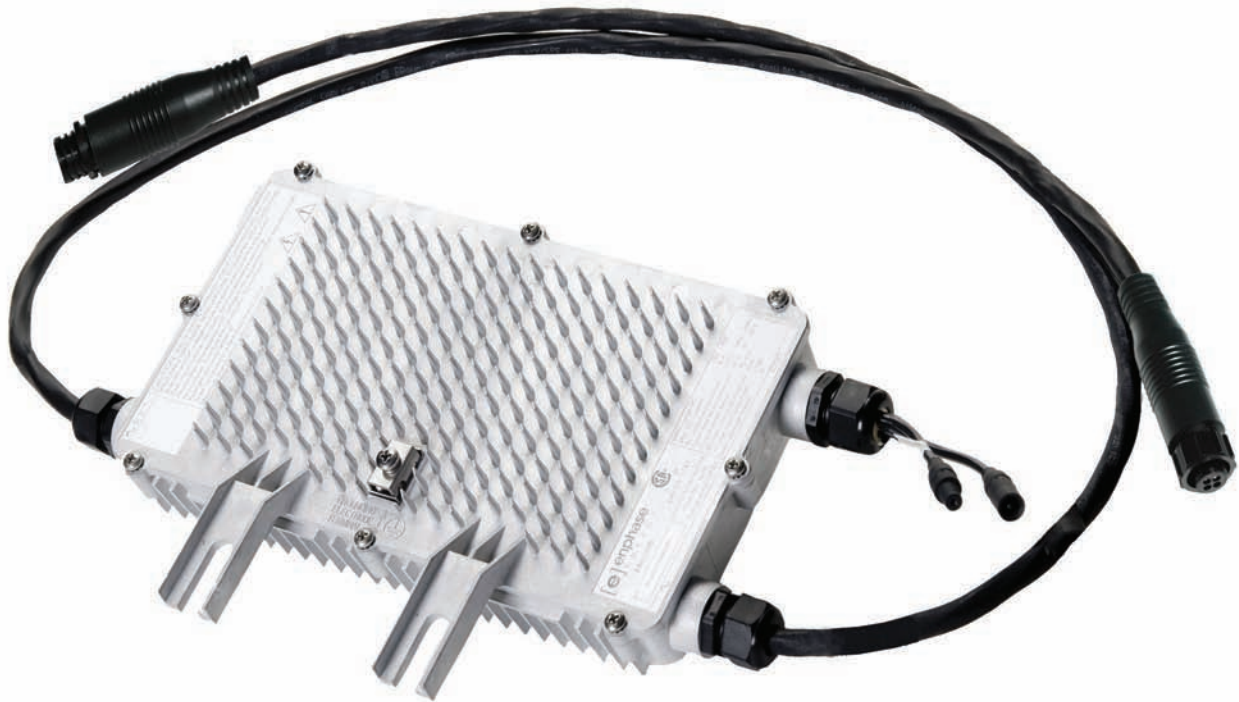


# [e] ENPHASE MICRO-INVERTER



Enphase Energy presents the first commercially available Micro-Inverter System for residential and commercial solar PV applications. The Enphase Micro-Inverter System utilizes advanced technologies to maximize energy harvest, increase system reliability and dramatically simplify design, installation and management.

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

**RELIABLE** [ - MTBF of 119 years  
- System availability greater than 99.8%  
- No single point of system failure

**SMART** [ - Quick & simple design, installation and management  
- 24/7 monitoring and analysis

# MICRO-INVERTER TECHNICAL DATA

|                                | 24V Modules                            |                   | 32V Modules       |                   |
|--------------------------------|--|-------------------|-------------------|-------------------|
|                                | 208V                                   | 240V              | 208V              | 240V              |
| <b>Input Data (DC)</b>         | M175-24-208-S01/2                      | M175-24-240-S01/2 | M200-32-208-S01/2 | M200-32-240-S01/2 |
| Recommended input power (STC)  | 210W                                   | 210W              | 240W              | 240W              |
| Maximum input DC voltage       | 54V                                    | 54V               | 80V               | 80V               |
| Peak power tracking voltage    | 25V – 40V                              | 25V – 40V         | 44V – 65V         | 44V – 65V         |
| Max. DC short circuit current  | 10A                                    | 10A               | 7A                | 7A                |
| Max. input current             | 8A                                     | 8A                | 5A                | 5A                |
| <b>Output Data (AC)</b>        |  |                   |                   |                   |
| Maximum output power           | 175W                                   | 175W              | 200W              | 200W              |
| Nominal output current         | 840mA                                  | 750mA             | 960mA             | 833mA             |
| Nominal voltage/range          | 208V/183V-229V                         | 240V/211V-264V    | 208V/183V-229V    | 240V/211V-264V    |
| Extended voltage/range         | 208V/179V-232V                         | 240V/206V-269V    | 208V/179V-232V    | 240V/206V-269V    |
| Nominal frequency/range        | 60.0/59.3-60.5                         | 60.0/59.3-60.5    | 60.0/59.3-60.5    | 60.0/59.3-60.5    |
| Extended frequency/range       | 60.0/59.2-60.6                         | 60.0/59.2-60.6    | 60.0/59.2-60.6    | 60.0/59.2-60.6    |
| Power factor                   | >0.95                                  | >0.95             | >0.95             | >0.95             |
| Maximum units per branch       | 24                                     | 16                | 21                | 14                |
| <b>Efficiency</b>              |  |                   |                   |                   |
| Peak inverter efficiency       | 95%                                    | 95%               | 95.3%             | 95.3%             |
| CEC weighted efficiency        | 94.5%                                  | 94.5%             | 95.0%             | 95.0%             |
| Nominal MPP tracking           | 99.6%                                  | 99.6%             | 99.8%             | 99.8%             |
| <b>Mechanical Data</b>         |  |                   |                   |                   |
| Operating temperature range    | -25°C to +65°C                         | -25°C to +65°C    | -25°C to +65°C    | -25°C to +65°C    |
| Night time power consumption   | 560mW                                  | 580mW             | 438mW             | 464mW             |
| Dimensions (WxHxD)             | 10.5" x 5.5" x 1.5"                    |                   |                   |                   |
| Weight                         | 4.0 lbs                                |                   |                   |                   |
| Cooling                        | Natural Convection – No Fans           |                   |                   |                   |
| Enclosure environmental rating | Outdoor – NEMA 6                       |                   |                   |                   |
| <b>Features</b>                |  |                   |                   |                   |
| Communication                  | Powerline                              |                   |                   |                   |
| Warranty                       | 15 Years                               |                   |                   |                   |
| Compliance                     | UL1741/IEEE1547<br>FCC Part 15 Class B |                   |                   |                   |

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