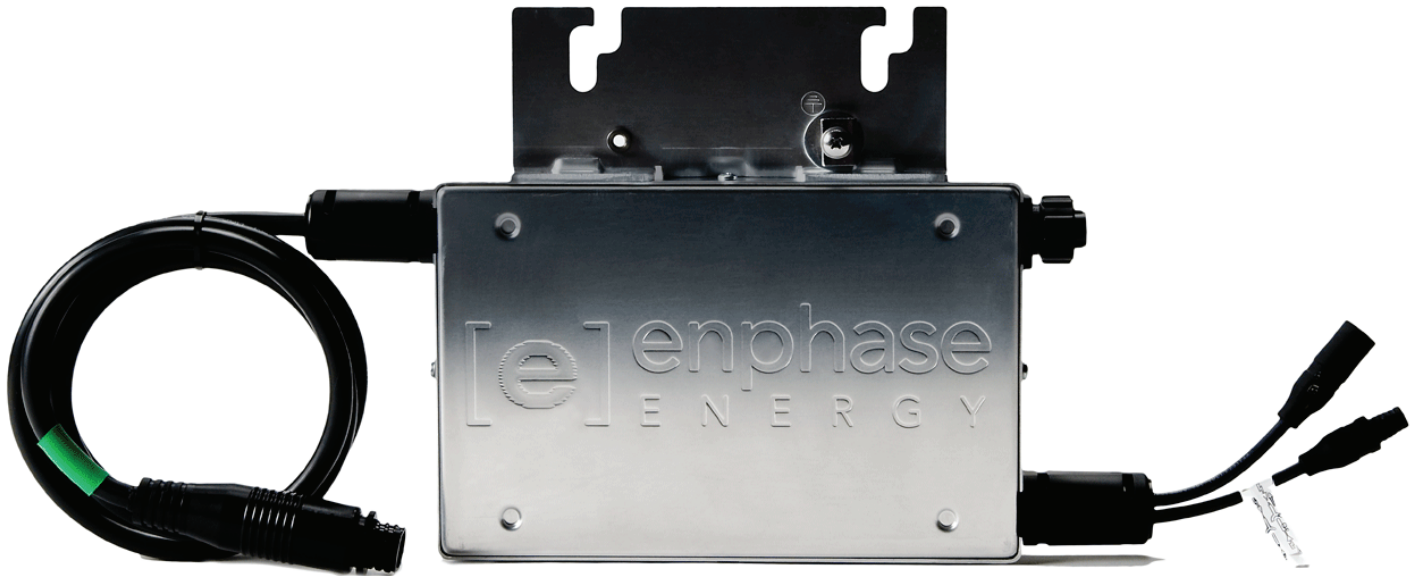


# [e] ENPHASE MICRO-INVERTER



The Enphase Energy Micro-Inverter System improves energy harvest, increases reliability, and dramatically simplifies design, installation and management of solar power systems. The Enphase System includes the micro-inverter, the Envoy Communications Gateway, and the web-based Enlighten monitoring and analysis website.

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

**RELIABLE** [ - MTBF of 365 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

## 60 and 72 Cell Modules

<b>Input Data (DC)</b>	M190-72-208-S11/2	M190-72-240-S11/2
Recommended input power (STC)	230W	230W
Maximum input DC voltage	54V	54V
Peak power tracking voltage	22V – 40V	22V – 40V
Max. DC short circuit current	12A	12A
Max. input current	10A	10A
<b>Output Data (AC)</b>		
Maximum output power	190W	190W
Nominal output current	920mA	800mA
Nominal voltage/range	208V/183V-229V	240V/211V-264V
Extended voltage/range	208V/179V-232V	240V/206V-269V
Nominal frequency/range	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
Power factor	>0.95	>0.95
Maximum units per branch	21	15
<b>Efficiency</b>		
Peak inverter efficiency	95.5%	95.5%
CEC weighted efficiency	95.0%	95.0%
Nominal MPP tracking	99.6%	99.6%
<b>Mechanical Data</b>		
Operating temperature range	-40°C to +65°C	-40°C to +65°C
Night time power consumption	30mW	30mW
Dimensions (WxHxD)	8" x 5.25" x 1.25"	
Weight	4.4 lbs	
Cooling	Natural Convection – No Fans	
Enclosure environmental rating	Outdoor – NEMA 6	
<b>Features</b>		
Communication	Powerline	
Warranty	15 Years	
Compliance	UL1741/IEEE1547 FCC Part 15 Class B	


**Enphase Energy, Inc.**

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