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

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MICRO-INVERTER TECHNICAL DATA

60 and 72 Cell Modules

Input Data (DC)	M190-72-208-S01/2	M190-72-240-S01/2
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

Output Data (AC)		
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

Efficiency		
Peak inverter efficiency	95.5%	95.5%
CEC weighted efficiency	95.0%	95.0%
Nominal MPP tracking	99.6%	99.6%

Mechanical Data		
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	4.0 lbs	
Cooling	Natural Convection – No Fans	
Enclosure environmental rating	Outdoor – NEMA 6	

Features	
Communication	Powerline
Warranty	15 Years
Compliance	UL1741/IEEE1547 Pending FCC Part 15 Class B Pending

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