

[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
Input Data (DC)	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
Output Data (AC)				
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
Efficiency				
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%
Mechanical Data				
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			
Features				
Communication	Powerline			
Warranty	15 Years			
Compliance	UL1741/IEEE1547 FCC Part 15 Class B			

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