



ENPHASE MICROINVERTER

M215



The Enphase Energy Microinverter System improves energy harvest, increases reliability, and dramatically simplifies design, installation and management of solar power systems. The Enphase System includes the microinverter, the Envoy Communications Gateway, and Enlighten, Enphase's monitoring and analysis software.

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

RELIABLE [- System availability greater than 99.8%
- No single point of system failure

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

SAFE [- Low voltage DC
- Reduced fire risk




MICROINVERTER TECHNICAL DATA

Input Data (DC)		M215-60-2LL-S22/S23 M215-60-2LL-S22-NA/S23-NA (Ontario)	
Recommended maximum input power (STC)	260W		
Maximum input DC voltage	45V		
Peak power tracking range	22V – 36V		
Operating range	16V – 36V		
Min./Max. start voltage	26.4V/45V		
Max. DC short circuit current	15A		
Max. input current	10.5A		
Output Data (AC)		@208 Vac	@240 Vac
Maximum output power	215W	215W	
Nominal output current	1.0 A*	0.9 A*	
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 20A branch circuit	25 (three phase)	17 (single phase)	
Maximum output fault current	1.05 Arms, over 3 cycles; 25.2 Apeak,	1.74ms duration	*Arms at nominal voltage
Efficiency			
CEC weighted efficiency		96.0%	
Peak inverter efficiency		96.3%	
Static MPPT efficiency (weighted, reference EN 50530)		99.6%	
Dynamic MPPT efficiency (fast irradiation changes, reference EN 50530)		99.3%	
Night time power consumption		46mW	
Mechanical Data			
Ambient temperature range	-40°C to +65°C		
Operating temperature range (internal)	-40°C to +85°C		
Dimensions (WxHxD)	17.3 cm x 16.4 cm x 2.5 cm (6.8" x 6.45" x 1.0")*		
Weight	1.6 kg (3.5 lbs)		
Cooling	Natural convection – no fans		
Enclosure environmental rating	Outdoor – NEMA 6		
			*without mounting bracket
Features			
Compatibility	Pairs with most 60-cell PV modules		
Communication	Power line		
Warranty	25-year limited warranty		
Compliance	UL1741/IEEE1547, FCC Part 15 Class B CAN/CSA-C22.2 NO. 0-M91, 0.4-04, and 107.1-01		

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