ENPHASE MICROINVERTER

Reviewed for Code Compliance
Inspections Division
Approved with Conditions

Date: 01/03/14

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 website.

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

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MICROINVERTER TECHNICAL DATA

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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	26 (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)	99.8%
Dynamic MPPT efficiency (fast irradiation changes, reference EN 50530)	99.9%
Night time power consumption	46mW

Mechanical Data	
Operating temperature range	-40ºC to +65ºC
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 years, limited
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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