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Siemens Microinverter System

usa.siemens.com/microsolar

The Siemens Microinverter System improves energy harvest, increases reliability, and dramatically simplifies design, installation and management of solar power systems. The Siemens system includes the Microinverter, Trunk-and-Drop cables, the Envoy Communications Gateway, and the Enlighten monitoring and analysis website.

The all new Siemens 215 watt Microinverter with integrated ground technology features a DC circuit isolated and insulated from ground, eliminating the need for a Ground Electrode Conductor (GEC). With this new technology, the installation is greatly simplified, safety is enhanced even further, and an additional saving on labor and material costs can be harvested.

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
- Industry leading warranty, up to 25 years

Simple

- Quick & simple design, installation and management
- 24/7 monitoring and analysis
- No GEC needed for microinverter

Safe

- Low voltage DC
- Reduced fire risk

Microinverter technical data

Input Data (DC)		SMIINT215R60XX	
Recommended maximum input power (STC)	190 - 270 W		
Maximum input DC voltage	48 V		
Peak power tracking range	27 V – 39 V		
Operating range	16 V – 48 V		
Min./Max. start voltage	22 V / 48 V		
Max. DC short circuit current	15 A		
Max. input current	10 A		
Output Data (AC)		@208 V ac	@240 V ac
Maximum output power	225 W	225 W	
Nominal output current	1.03 A*	0.9 A*	
Rated (continuous) output power	215 W	215 W	
Nominal voltage / range	208 V / 183 V - 229 V	240 V / 211 V - 264 V	
Nominal frequency / range	60.0 / 57-61 Hz	60.0 / 57-61 Hz	
Extended frequency / range	57-62.5 Hz	57-62.5 Hz	
Power factor	> 0.95	> 0.95	
Maximum units per 20 A branch circuit	25 (three phase)	17 (single phase)	
Maximum output fault current	850 mA _{RMS} , for 6 cycles		
<i>*A_{RMS} at nominal voltage</i>			
Efficiency			
CEC weighted efficiency	96.5%		
Peak inverter efficiency	96.5%		
Static MPPT efficiency (weighted, reference EN50530)	99.4%		
Night time power consumption	65 mW max		
Mechanical Data			
Ambient temperature range	-40° C to +65° C		
Dimensions (W x H x D)	17.1 cm x 17.3 cm x 3.0 cm (6.7" x 6.8" x 1.2")*		
Weight	1.6 kg (3.4 lbs)		
Cooling	Natural convection – no fans		
Enclosure environmental rating	Outdoor – NEMA 6		
<i>*without mounting bracket</i>			
Features			
Compatibility	Pairs with most 60-cell PV modules		
Communication	Power line		
Integrated ground	The DC circuit meets requirement for ungrounded PV arrays set in NEC 690.35. Equipment ground is provided in Trunk and Drop Cable. No additional GEC or ground is required. Ground fault protection (GFP) is integrated into the microinverter.		
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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