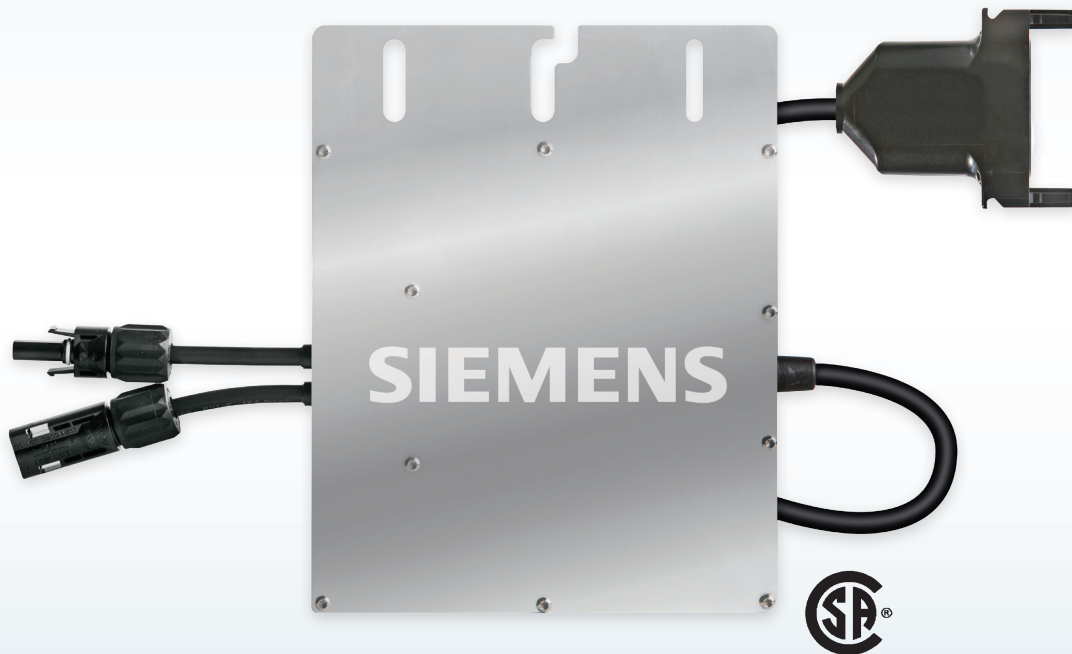


SIEMENS



Siemens Microinverter System

www.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 250 Microinverter brings higher power output than the 215 as well as a DC circuit isolated and insulated from ground. This means no Ground Electrode Conductor (GEC) is required for the microinverter, further simplifying installation and increasing safety.

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)	SMIINT250R60xx SMII250R60xxCA (Ontario)	
Recommended maximum input power (STC)	210 - 310 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	9.8 A	
Output Data (AC)	@208 V ac	@240 V ac
Maximum output power	250 W	250 W
Nominal output current	1.15 A*	1.0 A*
Rated (continuous) output power	240 W	240 W
Nominal voltage / range	208 V / 183 - 229 V	240 V / 211 - 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	24 (three phase)	16 (single phase)
Maximum output fault current	850 mA _{RMS} , for 6 cycles; 25.2 A _{peak} , 1.74 ms duration	
<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 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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