

Renewable Energy Products

Siemens Microinverter Features and Technical Data

Microinverters with integrated ground

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.

Productive

- Maximize 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



SMIINT215R60XX / SMIINT250R60XX

Microinverter technical data

Input Data (DC)	SMIINT215R60XX		SMIINT250R60XX	
Recommended max. input power (STC)	190 - 270 W		210 - 310 W	
Maximum input DC voltage	48 V		48 V	
Peak power tracking range	27 V - 39 V		27 V - 39 V	
Operating range	16 V - 48 V		16 V - 48 V	
Min./Max. start voltage	22 V / 48 V		22 V / 48 V	
Max. DC short circuit current	15 A		15 A	
Max. input current	10 A		9.8 A	
Output Data (AC)	@208 V ac	@240 V ac	@208 V ac	@240 V ac
Maximum output power	225 W	225 W	250 W	250 W
Nominal output current	1.03 A ^①	0.9 A ^①	1.15 A ^①	1.0 A ^①
Rated (continuous) output power	215 W	215 W	240 W	240 W
Nominal voltage / range	208 V / 183 V - 229 V	240 V / 211 V - 264 V	208 V / 183 - 229 V	240 V / 211 - 264 V
Nominal frequency / range	60.0 / 57-61 Hz	60.0 / 57-61 Hz	60.0 / 57-61 Hz	60.0 / 57-61 Hz
Extended frequency / range	57-62.5 Hz	57-62.5 Hz	57-62.5 Hz	57-62.5 Hz
Power factor	> 0.95	> 0.95	> 0.95	> 0.95
Maximum units per 20 A branch circuit	25 (three phase)	17 (single phase)	24 (three phase)	16 (single phase)
Maximum output fault current	850 mA _{RMS} , for 6 cycles		850 mA _{RMS} , for 6 cycles; 25.2 A _{peak} , 1.74 ms duration	
①A _{RMS} at nominal voltage				
Efficiency				
CEC weighted efficiency	96.5%		96.5%	
Peak inverter efficiency	96.5%		96.5%	
Static MPPT efficiency (weighted, reference EN50530)	99.4%		99.4%	
Night time power consumption	65 mW max		65 mW max	
Mechanical Data				
Ambient temperature range	-40° C to +65° C		-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") ^②		17.1 cm x 17.3 cm x 3.0 cm (6.7" x 6.8" x 1.2") ^②	
Weight	1.6 kg (3.4 lbs)		1.6 kg (3.4 lbs)	
Cooling	Natural convection - no fans		Natural convection - no fans	
Enclosure environmental rating	Outdoor - NEMA 6		Outdoor - NEMA 6	
②without mounting bracket				
Features				
Compatibility	Pairs with most 60-cell PV modules			
Communication	Power line			