

SPARQ's 190-Watt Microinverters

Models:

S190NA2240 / S190NA2240T

S190NA3250 / S190NA3250T

SPARQ microinverters offer unique features and capabilities that enable a high return on investment in grid-connected PV systems. The SPARQ microinverter is a light, compact unit with high power density. It is designed for a long lifetime matching that of a PV module, and results in high-quality power generation and high system availability.

PV systems using SPARQ microinverters enable maximum energy harvest, and are safe and easy to install. They also demonstrate optimal performance in snow, dust, and shade conditions. In addition, they allow per-module monitoring via power line communication. SPARQ's flexible 'plug-and-play' microinverter installation, enhanced system performance, and 25-year warranty offer users best-in-class returns on investment.



Features

- Long lifetime – compatible with module warranties
- Suitable for integrated AC modules
- High return on investment
- High quality power generation
- Improved safety
- Simple installation – 'plug-and-play'
- Optimal performance under snow, dust and shade
- No single point failure
- High system availability
- Maximum energy harvest
- Continuous per-module monitoring
- Compact and lightweight

Technical specifications

Model	S190NA3250 / S190NA3250T	S190NA2240 / S190NA2240T
Input Data (DC)		
Maximum power drawn from PV	205W	205W
Maximum input DC voltage	65V	50V
Maximum input DC current	10A	12A
Maximum power tracking voltage range	32V-50V	22V-40V
Minimum start-up voltage	33V	23V
Output Data (AC)		
Maximum output power	190W	190W
Nominal output voltage	240V	240V
Output voltage range	211V-264V	211V-264V
Maximum output current	0.8A	0.8A
Nominal output frequency	60Hz	60Hz
Output frequency range	59.3-60.5 Hz	59.3-60.5 Hz
Power factor	> 0.99	> 0.99
Output current THD	< 2%	< 2%
Maximum units per branch		
- S190NA3250 / S190NA2240	15	15
- S190NA3250T / S190NA2240T	Determined by bus cable gauge	Determined by bus cable gauge
Efficiency		
Peak efficiency	95%	94.5%
CEC efficiency	93.4%	92.9%
Nighttime power consumption	26mW	26mW
Mechanical Data		
Operating temperature range	-40°C to +65°C	-40°C to +65°C
Enclosure rating	NEMA 6 - outdoor	NEMA 6 - outdoor
Dimensions (L X W X H)	7.5" X 5" X 1.2"	7.5" X 5" X 1.2"
Weight		
- S190NA3250 / S190NA2240	4.3 lbs	4.3 lbs
- S190NA3250T / S190NA2240T	3.2 lbs	3.2 lbs
Cooling	Natural convection	Natural convection
Features		
Communication	Power line	Power line
Warranty	25 years	25 years
Regulatory	UL1741 IEEE 1547 CSA C22.2 NO. 107.1 FCC part 15, class B	UL1741 IEEE 1547 CSA C22.2 NO. 107.1 FCC part 15, class B



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