Enphase **Microinverters**

Enphase **S270**

Built on the fifth-generation platform, the Enphase **S270 Microinverter™** achieves the highest inverter efficiency for module-level power electronics for both 60-cell and high-powered 72-cell modules. With its all-AC approach, the S270 simplifies design and installation, and delivers the most reliable energy solution for your customers.

The S270 is compatible with storage systems, including battery management systems.

The Enphase S270 integrates seamlessly with Engage Cable, the Enphase Envoy-S™ communications gateway, and Enphase Enlighten™ monitoring and analysis software.

PRODUCTIVE

- Optimised for high-powered 72-cell and compatible with 60-cell modules
- Maximises energy production
- Minimises impact of shading, dust, and debris

SIMPLE AND RELIABLE

- No DC design or string calculation required
- More than 1 million hours of testing
- Industry-leading warranty, up to 10 years
- Transformer isolated

ADVANCED GRID READY

- Complies with fixed power factor, voltage and frequency ride-through requirements
- Remote updating to respond to changing grid requirements
- Configurable for variable grid profiles
- Configurable for export limiting

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Enphase **S270** Microinverter // DATA

INPUT DATA (DC)	**S270-72-LN-2, S270-72-LN-2-AU, S270-72-LN-5, S270-72-LN-5-AU**
Commonly used module pairings[1]	230 W - 350 W
Maximum input DC voltage	60 V
Peak power tracking voltage	27 V - 48 V
Operating range	16 V - 60 V
Min/Max start voltage	22 V / 60 V
Max DC short circuit current	15 A
OUTPUT DATA (AC)	
Peak output power	270 VA
Maximum continuous output power	260 VA
Nominal voltage/range	230 V / 184 V - 276 V
Nominal output current	1.15 A
Nominal frequency / range	50 / 45 - 55 Hz
Power factor at rated power	> 0.95
Maximum units per 20 A branch circuit	14 (Ph + N), 42 (3PH + N)
Maximum output fault current (source)	49 Apk < 10 µs, 12 Arms 3 cycles
Current (inrush)	0 A
AC backfeed current to module	0 mA
Power factor (adjustable)	0.7 leading ... 0.7 lagging
Protective class / over voltage category (OVC)	I / 3
EFFICIENCY	
EN 50530 (EU) efficiency	95.6 %
Peak efficiency	96.9 %
Static MPPT efficiency (weighted, reference EN50530)	99.5 %
Night time power consumption	< 50 mW
MECHANICAL DATA	
Ambient temperature range	-40°C to +65°C
Enclosure environmental rating	Outdoor - IP 67
Connector type, MC4	S270-72-LN-2 S270-72-LN-2-AU
Connector type, Amphenol H4	S270-72-LN-5 S270-72-LN-5-AU
Dimensions (WxHxD)	172 mm x 175 mm x 35 mm (without bracket)
Weight	1.8 kg
Cooling	Natural convection - No fans
Humidity range	0% - 100% (condensing)
FEATURES	
Compatibility	72-cell and 60-cell PV modules
Communication	Power line
Monitoring	Enlighten Manager and MyEnlighten monitoring options
Compliance (Pending)	AS 4777.2, AS 4777.3, RCM, IEC/EN 61000-6-3, IEC/EN 62019-1, IEC/EN 62109-2
Automatic disconnect	Automatic disconnect according to VDE 0126-1-1

1. Suggestion only, inverter self limits DC inputs.

To learn more about Enphase Microinverter technology,
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