

## 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 Enphase S270 is compatible with storage systems, including battery management systems, and it integrates seamlessly with the 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

# Enphase S270 Microinverter

<b>INPUT DATA (DC)</b>		<b>MODELS:</b> <b>S270-72-LN-2, S270-72-LN-2-AU,</b> <b>S270-72-LN-5, S270-72-LN-5-AU</b>
Commonly used module pairings <sup>1</sup>		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
<b>OUTPUT DATA (AC)</b>		
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
<b>EFFICIENCY</b>		
EN 50530 (EU) efficiency		95.6 %
Peak efficiency		96.9 %
Static MPPT efficiency (weighted, reference EN50530)		99.5 %
Night time power consumption		< 50 mW
<b>MECHANICAL DATA</b>		
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)
<b>FEATURES</b>		
Compatibility		72-cell and 60-cell PV modules
Communication		Power line
Monitoring		Enlighten Manager and MyEnlighten monitoring options
Compliance		AS 4777.2, AS 4777.3, RCM, IEC/EN 61000-6-3, IEC/EN 62019-1, IEC/EN 62109-2
Advanced grid ready		Power export limiting (zero export) and phase imbalance management when installed with an Enphase Envoy-S Metered™ gateway
Automatic disconnect		Automatic disconnect according to VDE 0126-1-1

1. Suggestion only, inverter self limits DC inputs.

To learn more about Enphase offerings, visit [enphase.com/au](http://enphase.com/au)