

## 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><br><b>S270-72-LN-2, S270-72-LN-2-AU,</b><br><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<br>S270-72-LN-2-AU  |   |
| Connector type, Amphenol H4                          | S270-72-LN-5<br>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,<br>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](https://enphase.com/au)

© 2016 Enphase Energy. All rights reserved. All trademarks or brands used are the property of Enphase Energy, Inc.  
2016-08-17

