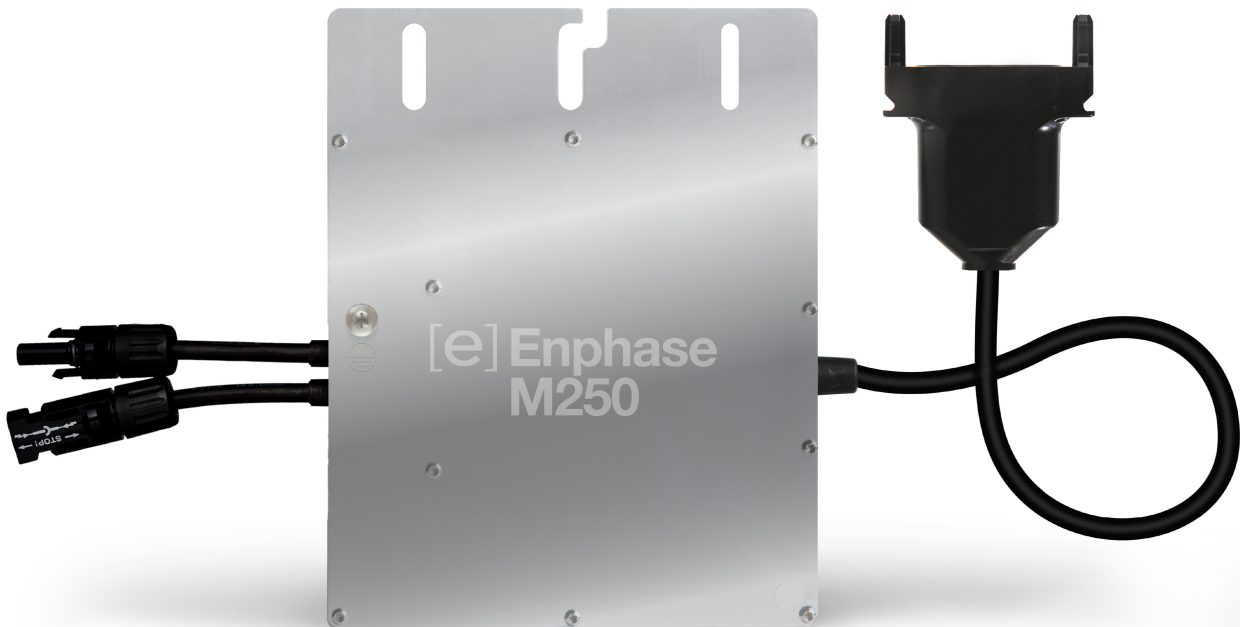


Enphase® M250



The **Enphase Energy Microinverter System** improves energy harvest, increases reliability, and dramatically simplifies design, installation, and management of solar power systems.

The Enphase System includes the microinverter, the Enphase® Envoy, and Enlighten®, Enphase's monitoring and analysis software.

PRODUCTIVE

- Optimised for higher-power modules
- Maximises energy production
- Minimises impact of shading, dust, and debris

RELIABLE

- 4th-generation product
- More than one million hours of testing
- System availability greater than 99.8%

SMART

- Quick and simple design, installation, and management
- 24/7 monitoring and analysis

SAFE

- Low-voltage DC reduces fire risk
- No single point of system failure
- Easy installation with Engage Cable

| INPUT DATA (DC) | Model: M250-60-230-S22, M250-60-230-S25 | Model: M250-72-2LN-S2, M250-72-2LN-S5 |
|--|--|--|
| Recommended input power (STC) | 210 - 310 W | 210 - 310 W |
| Maximum input DC voltage | 48 V | 60 V |
| Peak power tracking voltage | 27 V - 39 V | 27 V - 48 V |
| Operating range | 16 V - 48 V | 16 V - 60V |
| Min/Max start voltage | 22 V / 48 V | 22 V / 48 V |
| Max DC short circuit current | 15 A | 15 A |
| OUTPUT DATA (AC) | | |
| Peak output power | 258 W | 258 W |
| Rated output power | 250 W | 250 W |
| Rated output current | 1.09 A | 1.09 A |
| Nominal voltage | 230 V | 230 V |
| Nominal frequency | 50.0 Hz | 50.0 Hz |
| Power factor | >0.95 | >0.95 |
| Maximum units per 20 A branch circuit | 14 (Ph + N), 42 (3Ph + N) | 14 (Ph + N), 42 (3Ph + N) |
| Maximum units per cable section | 14 (Ph + N), 24 (3Ph + N) | 14 (Ph + N), 24 (3Ph + N) |
| AC backfeed current to module | 0 mA | 0 mA |
| EFFICIENCY | | |
| EN 50530 (EU) efficiency | 95.7% | 95.7% |
| Static MPPT efficiency (weighted, reference EN50530) | 99.6% | 99.5% |
| Night time power consumption | 0.055 W | 0.065 W |
| MECHANICAL DATA | | |
| External operating temperature range (ambient) | -40°C to +65°C | |
| Internal operating temperature range | -40°C to +85°C | |
| Enclosure environmental rating | Outdoor - IP67 | |
| Connector type, MC4 | M250-60-230-S22 and M250-72-2LN-S2 | |
| Connector type, Amphenol H4 | M250-60-230-S25 and M250-72-2LN-S5 | |
| Dimensions (WxHxD) | 179 mm x 217 mm x 28 mm (with bracket) | |
| Weight | 1.66 kg | |
| Cooling | Natural convection - No fans | |
| FEATURES | | |
| Compatibility | 60-cell PV modules | 60-cell and 72-cell PV modules |
| Communication | Power line communication | |
| Monitoring | Enlighten Manager and MyEnlighten monitoring options | |
| Transformer design | High frequency transformers, galvanically isolated | |
| Compliance | AS4777, C10/11, CEI_0-21, EN50438, EN62109-1, EN62109-2, ERDF-NOI-RES_13E_V5, G59/2, G83/2, VDE-0126-1-1 + A1, VDE AR-N 4105 | |
| Automatic disconnect | Automatic disconnect according to OVE / ÖNORM E 8001-4-712 (Installations in Austria limited to 3.68 KVa.) | |

To learn more about Enphase microinverter technology, visit enphase.com/eu.