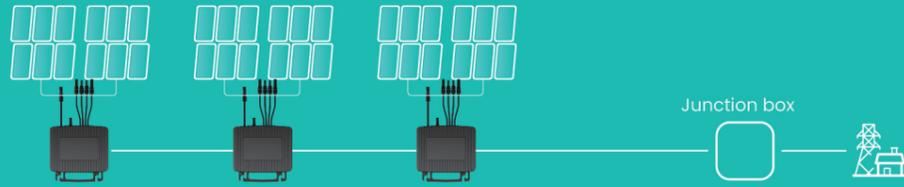
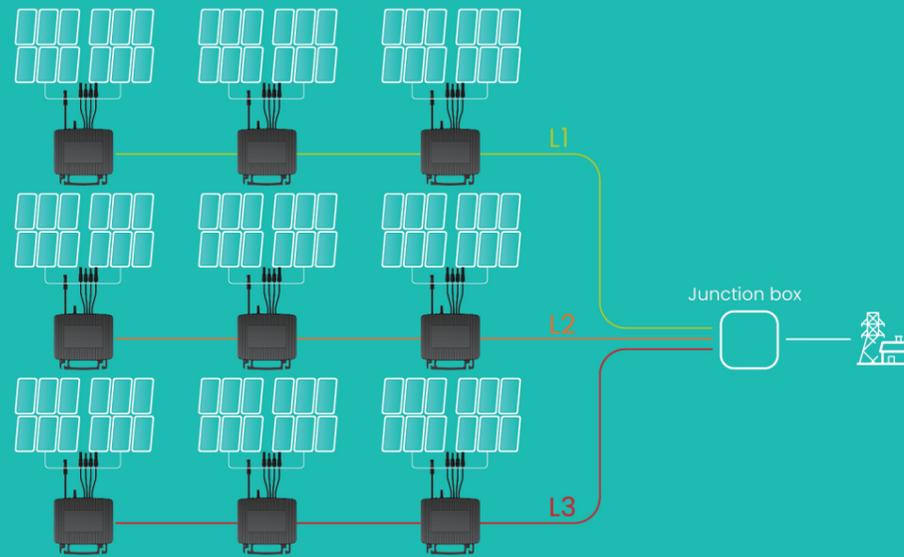


On-Grid PV Only (Single Phase)



On-Grid PV Only (Three Phase)



Micro-Grid PV+ESS (Single Phase / Three Phase)



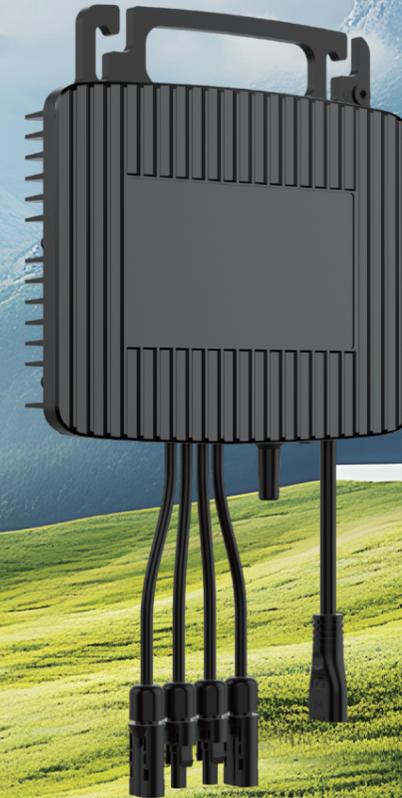
- Integrated EMS with SigenStor, optimal synergy
- Module MPPT, shade-immune, complex rooftop-ready
- Rapid shutdown & AFCI-free, ultimate safety



Sigenergy focuses on developing cutting-edge home and business energy solutions, with products ranging from energy storage systems to solar inverters and EV chargers. Our world-class R&D team of hundreds of top industry experts shares the vision of making the world greener via continuous innovation. With global sales and services, we aim to become our customers' most trusted partner on their journey to a more sustainable future.

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SigenMicro Inverter

1-in-1 400 / 500W 2-in-1 800 / 1000 W



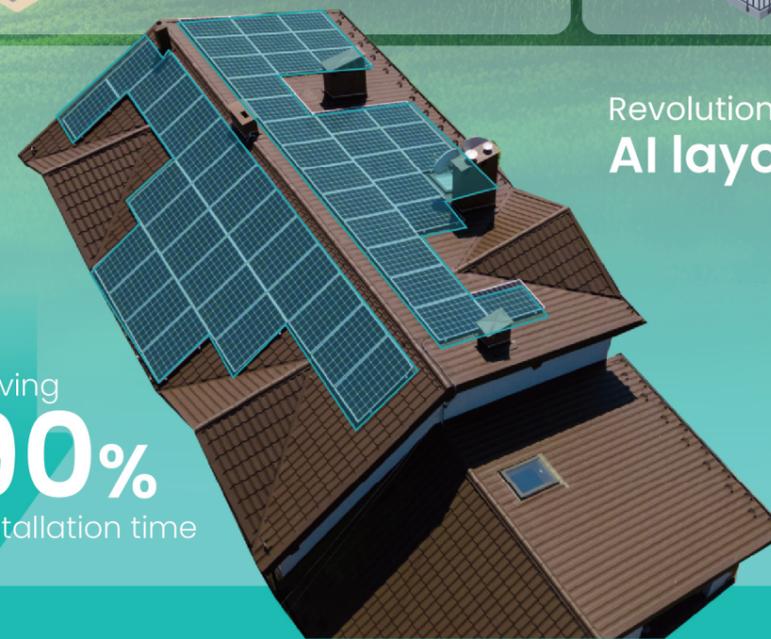
Rooftop solar

Boost earnings with module-level MPPT



Balcony solar

Turn your balcony into the fortress



Revolutionize installation speed with **AI layout recognition**

Saving **90%** Installation time



EMS inside,
free from network gateway



97.5%

High efficiency

Boost your system's efficiency and accelerate your payback period

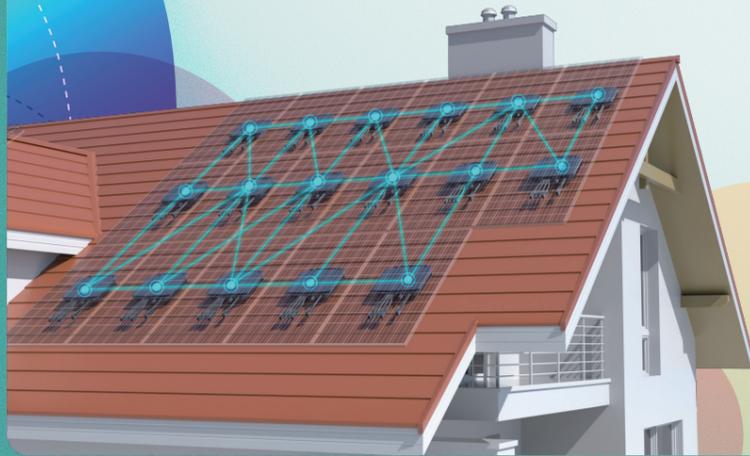


Module-level MPPT

Fearless of shadow, ideal for complex rooftops
Boost every ray of sunshine

Innovative WLAN Mesh Comm.

The world first in the industry to apply Mesh technology to the MLPE field



Auto-networking
Effortless setup, instant expansion.

Self-healing
Ultra stability, zero downtime.

High-coverage
Mesh blankets every corner



Perfect Synergy with SigenStor
Module-level mgmt. for higher efficiency & safety



IP67 Protection
Durable in harsh environment

SigenMicro Inverter

Preliminary

| SigenMicro | 400 | 500 | 800 | 1000 | Units | | | | | | | | |
|--|--|------------|------------------|------------------|-------|------|------|------|------|------|------|------|---|
| DC Input | | | | | | | | | | | | | |
| Commonly used module power | 320 ~ 540+ | 400 ~ 670+ | (320 ~ 540+) x 2 | (400 ~ 670+) x 2 | W | | | | | | | | |
| Start-up voltage | 20 | | | | V | | | | | | | | |
| Min. / Max. PV input voltage | 16 ~ 60 | | | | V | | | | | | | | |
| MPPT voltage range | 16 ~ 60 | | | | V | | | | | | | | |
| Number of modules connected | 1 | 1 | 2 | 2 | | | | | | | | | |
| Max. input current | 16 x 1 | 16 x 1 | 16 x 2 | 16 x 2 | A | | | | | | | | |
| Max. input short-circuit current | 25 x 1 | 25 x 1 | 25 x 2 | 25 x 2 | A | | | | | | | | |
| AC Output | | | | | | | | | | | | | |
| Grid type | Single Phase | | | | | | | | | | | | |
| Nominal output power | 400 | 500 | 800 | 1000 | W | | | | | | | | |
| Nominal output current | 1.82 | 1.74 | 1.67 | 2.27 | 2.17 | 2.08 | 3.64 | 3.48 | 3.33 | 4.55 | 4.35 | 4.17 | A |
| Nominal output voltage | 220 | 230 | 240 | 220 | 230 | 240 | 220 | 230 | 240 | 220 | 230 | 240 | V |
| Nominal output voltage range ¹ | 184 ~ 275 | | | | V | | | | | | | | |
| Nominal grid frequency | 50 / 60 | | | | Hz | | | | | | | | |
| Grid frequency range ¹ | 45 ~ 55 / 57 ~ 63 | | | | Hz | | | | | | | | |
| Total current harmonic distortion | THDi < 3% (at nominal power) | | | | | | | | | | | | |
| Power factor | 0.8 leading ~ 0.8 lagging | | | | | | | | | | | | |
| Max. units per branch ² (2.5 mm ² , 20A) | 8 | 9 | 9 | 7 | 7 | 7 | 4 | 4 | 4 | 3 | 3 | 3 | |
| Max. units per branch ² (4.0 mm ² , 30A) | 13 | 13 | 14 | 10 | 11 | 11 | 6 | 6 | 7 | 5 | 5 | 5 | |
| Efficiency | | | | | | | | | | | | | |
| Max. efficiency | 97.0% | | | 97.5% | | | | | | | | | |
| Monitoring & Protection | | | | | | | | | | | | | |
| Grid monitoring | Supported | | | | | | | | | | | | |
| Ground fault detection | Supported | | | | | | | | | | | | |
| PV module-level monitoring | Supported | | | | | | | | | | | | |
| Rapid shutdown | Supported | | | | | | | | | | | | |
| Surge protection | Supported | | | | | | | | | | | | |
| General Data | | | | | | | | | | | | | |
| Dimensions (W / H / D) | 232 / 186 / 35 (without bracket) | | | | mm | | | | | | | | |
| Weight | 2.8 | | | | kg | | | | | | | | |
| Storage temperature range | -40 ~ 85 | | | | °C | | | | | | | | |
| Operating temperature range | -40 ~ 65 | | | | °C | | | | | | | | |
| Relative humidity range | 0% ~ 100% | | | | | | | | | | | | |
| Max. operation altitude | 4000 | | | | m | | | | | | | | |
| Cooling | Natural convection | | | | | | | | | | | | |
| Topology | High Frequency Transformers, Galvanically Isolated | | | | | | | | | | | | |
| Night power consumption | < 50 | | | | mW | | | | | | | | |
| Ingress protection rating | IP67 | | | | | | | | | | | | |
| Display | LED | | | | | | | | | | | | |
| Communication | WLAN | | | | | | | | | | | | |
| AC connection type | Plug and play connector | | | | | | | | | | | | |
| Installation method | Bracket mounted | | | | | | | | | | | | |
| Standard Compliance | | | | | | | | | | | | | |
| Standard ⁴ | IEC/EN 62109-1, IEC/EN 62109-2, IEC/EN 61000-6-1, IEC/EN 61000-6-2 | | | | | | | | | | | | |

1. Nominal output voltage range and grid frequency range can vary depending on local requirements.
 2. Limitations may differ by region. For the exact number of microinverters permitted per branch circuit, please refer to local regulations and standards. The current capacity of the cable is under normal temperature environment.
 3. SigenMicro is only available in specific regions. Please contact Sigenenergy or local distributors for details.
 4. For all standards refer to the certificates category on the Sigenenergy website.