

SigenMicro Inverter

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

- Innovative DAB Topology, highest efficiency in the industry*
- The world's first WiFi Mesh, more reliable and scalable
- The world's first EMS inside, free from network gateway
- AI layout recognition, 5 minutes fast commissioning
- Whitelisting security, enhanced data protection

Rooftop solar

Balcony solar

* At 1 kW level

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)	8	9	9	7	7	7	4	4	4	3	3	3	
Max. units per branch ² (4.0 mm ²)	13	13	14	10	11	11	6	6	7	5	5	5	
Efficiency													
Max. efficiency	97.5%												
European efficiency	96.7%												
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												

- Nominal output voltage range and grid frequency range can vary depending on local requirements.
- Limitations may differ by region. For the exact number of microinverters permitted per branch circuit, please refer to local regulations and standards.
- SigenMicro is only available in specific regions. Please contact Sigenergy or local distributors for details.

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