

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



* At 1 kW level

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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	2.27	2.17	3.64	3.48	4.55	4.35	A
Nominal output voltage	220	230	220	230	220	230	220	230	V
Nominal output voltage range ¹	184 ~ 275								
Nominal grid frequency	50								
Grid frequency range ¹	45 ~ 55								
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	7	7	4	4	3	3	
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)								
Weight	2.5		2.5		2.8		2.8		kg
Storage temperature range	-40 ~ 85								
Operating temperature range	-40 ~ 65								
Relative humidity range	0% ~ 100%								
Max. operation altitude	4000								
Cooling	Natural convection								
Topology	High Frequency Transformers, Galvanically Isolated								
Night power consumption	< 50								
Ingress protection rating	IP67								
Display	LED								
Communication	WLAN								
AC connection type	Plug and play connector								
Installation method	Bracket mounted								

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.
3. SigenMicro is only available in specific regions. Please contact Sigenergy or local distributors for details.

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