

# 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 <sup>1</sup>	184 ~ 275													V
Nominal grid frequency	50 / 60													Hz
Grid frequency range <sup>1</sup>	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 <sup>2</sup> (2.5 mm <sup>2</sup> )	8	9	9	7	7	7	4	4	4	3	3	3		
Max. units per branch <sup>2</sup> (4.0 mm <sup>2</sup> )	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	2.5			2.5			2.8			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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