

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 WLAN 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 , 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	97.5%													
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. The current capacity of the cable is under normal temperature environment.
- SigenMicro is only available in specific regions. Please contact Sigenergy or local distributors for details.

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