

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

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)	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	2.5				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																

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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