

# SigenMicro Inverter

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

- Innovative DAB Topology, industry-leading efficiency
- 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



SigenMicro	400	500	800	1000	Units		
<b>DC Input</b>							
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	20 x 1	20 x 1	20 x 2	20 x 2	A		
<b>AC Output</b>							
Grid type	Single Phase						
Nominal output power	400	500	800	1000	W		
Nominal output current	1.82	1.74	1.67	2.27	A		
Nominal output voltage	220	230	240	220	V		
Nominal output voltage range <sup>1</sup>	184 ~ 275						
Nominal grid frequency	50 / 60						
Grid frequency range <sup>1</sup>	45 ~ 55 / 57 ~ 63						
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> , 20A)	8	9	9	7			
Max. units per branch <sup>2</sup> (4.0 mm <sup>2</sup> , 30A)	13	13	14	10			
	11	11	6	6			
	7	7	5	5			
	5	5	5	5			
<b>Efficiency</b>							
Max. efficiency	97.0%			97.5%			
<b>Monitoring &amp; Protection</b>							
Grid monitoring	Supported						
Ground fault detection	Supported						
PV module-level monitoring	Supported						
Rapid shutdown	Supported						
Surge protection	Supported						
<b>General Data</b>							
Dimensions (W / H / D)	232 / 186 / 35 (without bracket)						
Weight	2.8						
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						
<b>Standard Compliance</b>							
Standard <sup>3</sup>	IEC/EN 62109-1, IEC/EN 62109-2, IEC/EN 61000-6-1, IEC/EN 61000-6-2						

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. The current capacity of the cable is under normal temperature environment.
3. For all standards refer to the certificates category on the Sigenergy website.
4. SigenMicro is only available in specific regions. Please contact Sigenergy or local distributors for details.

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