

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
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	20 x 1				20 x 1				20 x 2				20 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	97.0%						97.5%										
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										
Standard Compliance																	
Standard ³	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 Sigenenergy website.

4. SigenMicro is only available in specific regions. Please contact Sigenenergy or local distributors for details.

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