

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 Inverter

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																	
Ingress protection rating	IP67																	
Display	LED																	
AC connection type	Plug and play connector																	
Installation method	Bracket mounted																	
Standard Compliance ⁴																		
RED	EN 300328 V 2.2.2:2019, EN IEC 62311:2020, EN IEC 61000-6-1:2019, EN IEC 61000-6-3:2021, EN 301489-1 V 2.2.3:2019, EN 301489-17 V 3.3.1:2024, EN IEC 61000-6-2:2019, EN IEC 61000-6-4:2019, EN 62920:2017+A11+A1, EN 55011:2016+A1+A11+A2, EN 62109-1:2010, EN 62109-2:2011																	
Grid compliance	IEC 62116, IEC 61727, EN 50549-1, UNE 217001/UNE 217002/NTS 631, CEI 0-21, C10/11, VDE 4105, NRS 097																	

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.

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

4.

For all standards refer to the certificates catogary on the Sigenergy website.