SIGENERGY

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



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

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