SIGENERGY

SigenMicro Inverter

384 W / 480 W 1-in-1 | 768 W / 960 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

US

SigenMicro Inverter

SigenMicro	384 US	480 US	768 US	960 US	Units
DC Input (from PV)					
Commonly used module power	320 ~ 540	400 ~ 670	(320 ~ 540) x 2	(400 ~ 670) x 2	W
Start-up voltage	20				V
Min. PV input voltage / Start-up voltage	16 / 20				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 (on-grid)					
Max. continuous output power	384	480	768	960	VA
Max. continuous output current	1.6	2	3.2	4	A
Nominal (L-L) output voltage	240				V
Nominal (L-L) output voltage range [1]	211 ~ 264				V
Nominal grid frequency	60				Hz
Grid frequency range [1]	57 ~ 63				Hz
Total current harmonic distortion	THDi < 3% (at rated power)				
Power factor	0.8 leading ~ 0.8 lagging				
Max. units per 20 A (L-L) branch circuit[2]	10	8	5	4	
Max. units per 30 A (L-L) branch circuit[2]	15	12	7	6	
Efficiency					
Max. efficiency	97.0%		97.5%		
Monitoring & Protection					
Grid monitoring	Supported				
Ground fault protection	Supported				
PV module-level monitoring	Supported				
Rapid shutdown	Supported				
Surge protection	Supported				
General Data					
Dimensions (W / H / D)	9.13 x 7.32 x 1.38 / 232 x 186 x 35 (without bracket)				in / mm
Weight	6.2 / 2.8				lbs / kg
Storage temperature range	-40 ~ 185 / -40 ~ 85				°F / °C
Operating temperature range	-40 ~ 149 / -40 ~ 65				°F / °C
Relative humidity range	0% ~ 100%				
Max. operation altitude	13123 / 4000				ft / m
Cooling	Natural convection				
Topology	High Frequency Transformers, Galvanically Isolated				
Ingress protection rating	NEMA Type 6 / Outdoor				
Display	LED				
Communication	WLAN				
AC connection type	Plug and play connector				
Installation method	Bracket mounted				
Standard Compliance					
Certifications	UL 1741, UL 1741 SB, UL 1741 CRD, IEEE 1547-2018, IEEE 1547.1-2020, UL 1998, UL 991, UL 1699B, CP 65, FCC Part 15 Class B				

1. Nominal output voltage range and grid frequency range can vary depending on local requirements.
2. Limits may vary. Refer to local requirements to define the number of microinverters per branch in your area.

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