

Sigen Hybrid Inverter 50.0 / 60.0 / 80.0 / 100.0 / 110.0 / 125.0 kw



- Battery ready, easy upgrades to a PV + BESS at any time
- Smaller and lighter, easier installation and transportation
- Built-in EMS, supports 100 units in parallel without data logger
- Industry-leading 500m AFCI, top-tier safety across applications
- On-site self-power supply, removes the need for temporary power
- IP66 protection rating, ensuring worry-free outdoor deployment

Enjoy Green Energy

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Sigen PV	50M1-HYA	60M1-HYA	80M1-HYA	100M1-HYA	110M1-HYA	125M1-HYA	Uni
DC Input (PV)							
Max. PV input power	100,000	120,000	160,000	200,000	220,000	220,000	Wp
Max. DC input voltage			1,1	00			V
Nominal DC input voltage	600 @380/400 Vac, 720 @480 Vac						V
Start-up voltage	180						V
MPPT voltage range			160 ~	1,000			V
Number of MPP. trackers	4	5	6	8	8	8	
Number of PV strings per MPPT				2			
Max. input current per MPPT	40						A
Max. short-circuit current per MPPT	60						A
DC Input (Battery)							
Battery module models	SigenStack BAT 12.0						
System configuration quantity range ¹			4 -	~ 21			pc
Max. charge power	55,000	66,000	88,000	110,000	121,000	137,500	W
Max. discharge power	55,000	66,000	88,000	110,000	121,000	137,500	W
Max. operating current			18	30			A
AC Output							
Nominal output active power	50,000	60,000	80,000	100,000	110,000	125,000	W
Max. output apparent power	55,000	66,000	88,000	110,000	121,000	137,500	VA
Max. output active power (cosΦ=1)	55,000	66,000	88,000	110,000	121,000	137,500	W
Nominal output current @380Vac	76.0	91.2	121.5	151.9	167.1	189.9	A
Nominal output current @400Vac	72.5	87.0	115.9	144.9	159.4	181.2	A
Nominal output current @480Vac	60.2	72.2	96.3	120.3	132.4	150.4	A
Max. output current @380 / 400Vac	83.6	100.3	133.7	167.1	183.8	208.9	A
/ax. output current @480Vac	66.2	79.4	105.9	132.4	145.6	165.5	A
Iominal output voltage			380 / 400 / 48	30, 3W+(N)+PE			Va
Nominal grid frequency	50/60						Hz
Power factor			0.8 leading	~ 0.8 lagging			
otal current harmonic distortion	THDi < 3%	THDi < 3%	THDi < 2%	THDi < 2%	THDi < 2%	THDi < 2%	
Efficiency							
/ax. efficiency @380/400 Vac			98	.6%			
uropean efficiency @380/400 Vac	98.3%	98.3%	98.3%	98.4%	98.4%	98.3%	
Max. efficiency @480 Vac			98	.8%			
European efficiency @480 Vac	98.4%	98.4%	98.4%	98.6%	98.6%	98.4%	
Protection						· · · · ·	
	D(C reverse polarity	/ protection, Insu	lation monitoring	, Residual curre	nt monitoring,	
Safety protection feature		rc fault circuit int	errupter, AC ove	ercurrent/overvolt	age/short-circu	it protection.	
General Data		туреп	DC/AC surge pr	otection, Anti-islo	anding protectic		
Dimensions (W / H / D)			019 / 640 / 240			000/660/240	
			918 / 640 / 340 78			999 / 668 / 348 95	mr
Veight	<pre></pre>						kg
Nighttime power consumption	-40 ~ 70						W
Storage temperature range	-40 ~ 70 -30 ~ 60						°C
Operating temperature range							°C
Relative humidity range	5,000 (Derating at 4,000m)						~~~
Max. operating altitude	.						m
V connection type				$(M_{\rm ex} 240 {\rm mm}^2)$			
	OT / DT terminal (Max. 240 mm²) Smart air cooling						
ngress protection rating	IP66 WLAN / Fast Ethernet / RS485 / Sigen CommMod (4G/3G/2G)						
		WLAN / FUST E	. 1911et / K5485 /	Sigen CommMo	u (40/30/20)		
Standard Compliance							
Standard ²			1	C / EN 61000-6-1,			

805 V. 2) When the system is configured with 4 to 18 battery modules, the string open-circuit voltage has no special requirements.
For all standards refer to the certificates category on the Sigenergy website.
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configured with 20 battery modules, the string open-circuit voltage should be > 870 V; 1.3) If configured with 19 battery modules, the string open-circuit voltage should be >