



SIGENERGY



Sigen Hybrid Inverter

3.0-12.0 kW Three Phase

- Battery ready for future expansion
- Slimmest design, less intall. requirements
- Fan-less design, powerful yet quiet
- IP66 protection rating, worry-free usage

NEW

Sigen Hybrid Inverter 3.0–12.0 kW Three Phase

Preliminary

Sigen Hybrid	3.0 TP2	4.0 TP2	5.0 TP2	6.0 TP2	8.0 TP2	10.0 TP2	12.0 TP2	Units
DC Input (from PV)								
Max. PV power	6000	8000	10000	12000	16000	20000	24000	W
Max. DC input voltage	1100							V
Nominal DC input voltage	600							V
Start-up voltage	180							V
MPPT voltage range	160 ~ 1000							V
Number of MPP. trackers	2							
Number of PV strings per MPPT	1					1/2		
Max. input current per MPPT	16					16/32	16/32	A
Max. short-circuit current per MPPT	22					22/44	22/44	A
AC Output (on-grid)								
Nominal output power	3000	4000	5000	6000	8000	10000	12000	W
Max. output apparent power	3300	4400	5500	6600	8800	11000	13200	VA
Nominal output current	4.6	6.1	7.6	9.1	12.2	15.2	18.2	A
Max. output current	5.1	6.7	8.4	10.0	13.4	16.7	20.1	A
Nominal output voltage	220/380, 230/400, 240/415 (3W/N+PE)							V
Nominal grid frequency	50 / 60							Hz
Power factor	0.8 leading ~ 0.8 lagging							
Total current harmonic distortion	THDi < 3%							
Efficiency								
Max. efficiency	98.0%	98.3%	98.4%	98.7%	98.7%	98.7%	98.7%	
European efficiency	97.0%	97.3%	97.5%	97.7%	98.0%	98.1%	98.2%	
Additional features								
Battery controller models	SigenStor BC							
Battery module models	SigenStor BAT series							
Number of modules per controller	1 ~ 6							pcs
Battery module voltage range	600 ~ 900							V
Peak output power (10 seconds)	4500	6000	7500	9000	12000	15000	18000	W
Nominal output voltage	220/380, 230/400, 240/415 (3W/N+PE)							V
Protection								
Safety protection feature	DC reverse polarity protection, Insulation monitoring, Residual current monitoring, Arc fault circuit interrupter, AC overcurrent/overvoltage/short-circuit protection, Type II DC/AC surge protection, Anti-islanding protection							
General Data								
Dimensions (W / H / D)	475 / 568 / 99							mm
Weight	< 17							kg
Storage temperature range	-40 ~ 70							°C
Operating temperature range	-30 ~ 60							°C
Relative humidity range	0% ~ 95%							
Max. operating altitude	4000							m
Cooling	Natural convection							
System ingress protection rating	IP66							
Communication	WLAN / Fast Ethernet / RS485 / Sigen CommMod (4G/3G/2G)							
Installation method	Wall-mounted							
Night consumption	≤ 5							W
Noise	≤ 29							dB

1. This document reflects current technology and is subject to change without notice. Refer to the Sigenenergy website for the latest information.