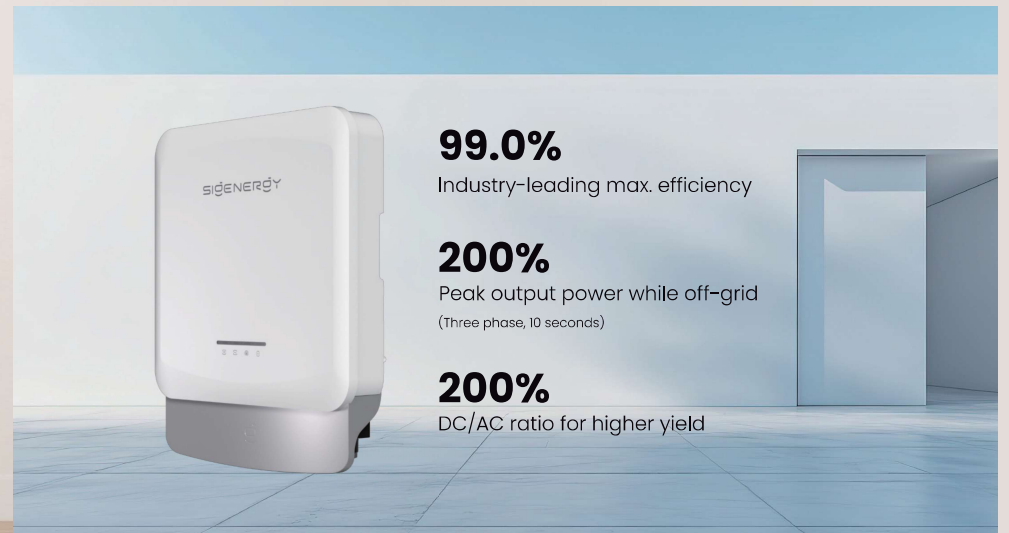
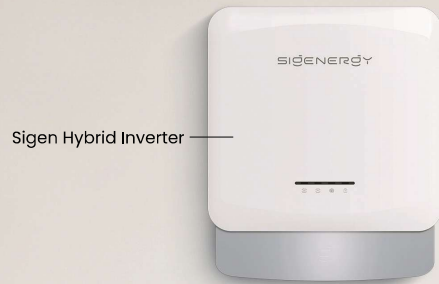




Sigen Hybrid Inverter

Harmoniously Complementing Your Home



Signen Hybrid Inverter 2.0–6.0 kW Single Phase

Signen Hybrid	2.0 SP2	3.0 SP2	3.6 SP2	4.0 SP2	4.6 SP2	5.0 SP2	6.0 SP2	Units	
DC Input (from PV)									
Max. PV power	4000	6000	7360	8000	9200	10000	12000	W	
Max. DC input voltage								600	V
Nominal DC input voltage								350	V
Start-up voltage								100	V
MPPT voltage range								50 ~ 550	V
Number of MPP trackers								2	
Number of PV strings per MPPT								1	
Max. input current per MPPT								16	A
Max. short-circuit current per MPPT								22	A
Battery Connection									
Battery controller models								SignenStor BC	
Battery module models								SignenStor BAT series	
Number of modules per controller								1 ~ 6	pcs
Battery module voltage range								300 ~ 600	V
AC Output (on-grid)									
Nominal output power	2000	3000	3680	4000	4600	5000	6000	W	
Max. output apparent power	2200	3300	3680	4400	5000	5500	6600	VA	
Nominal output current	9.1	13.6	16.0	18.2	20.9	22.7	27.3	A	
Max. output current	10.0	15.0	16.0	20.0	22.7	25.0	30.0	A	
Nominal output voltage								220 / 230 / 240	V
Nominal grid frequency								50 / 60	Hz
Power factor								0.8 leading ~ 0.8 lagging	
Total current harmonic distortion								THDi < 3%	
AC Output (backup)									
Peak output power (10 seconds)	3000	4500	5520	6000	6900	7500	9000	W	
Nominal output voltage								220 / 230 / 240	V
Nominal output frequency								50 / 60	Hz
Power factor								0.8 leading ~ 0.8 lagging	
Total voltage harmonic distortion								THDv < 3%	
Disruption time of backup switch ¹								0	ms
Efficiency									
Max. efficiency								98.6%	
European efficiency	97.5%	98.0%	98.1%	98.2%	98.3%	98.3%	98.3%		
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)	373 / 473 / 99							mm
Weight	11.5							kg
Storage temperature range	-40 ~ 70							°C
Operating temperature range	-30 ~ 60							°C
Relative humidity range	0% ~ 100%							
Max. operating altitude	4000							m
Cooling	Natural convection							
System ingress protection rating	IP66							
Communication	WLAN / Fast Ethernet / RS485 / Signen CommMod (4G/3G/2G)							
Installation method	Wall-mounted							
Night consumption	2.5							W
Noise	25							dB

- ¹ This refers to the load-side disruption time, to achieve this functionality Signen Energy Gateway needs to be used together with Signen Battery and Signen Hybrid Inverter. Test conditions: In the open-circuit state of the power grid, the nominal power of the Signen Hybrid Inverter is higher than the total power of the home loads.
- ² This document reflects current technology and is subject to change without notice. Refer to the Signenergy website for the latest information.

Signen Hybrid Inverter 3.0–12.0 kW Three Phase

Signen 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
Battery Connection									
Battery controller models								SignenStor BC	
Battery module models								SignenStor BAT series	
Number of modules per controller								1 ~ 6	pcs
Battery module voltage range								600 ~ 900	V
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%	
AC Output (backup)									
Peak output power (10 seconds)	6000	8000	10000	12000	16000	20000	24000	W	
Nominal output voltage								220/380, 230/400, 240/415 (3W/N+PE)	V
Nominal output frequency								50 / 60	Hz
Power factor								0.8 leading ~ 0.8 lagging	
Total voltage harmonic distortion								THDv < 3%	
Disruption time of backup switch ¹								0	ms
Efficiency									
Max. efficiency	98.8%	98.9%	98.9%	99.0%	99.0%	99.0%	99.0%		
European efficiency	97.2%	97.8%	98.1%	98.5%	98.5%	98.5%	98.6%		
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)	477 / 568 / 99							mm
Weight	19.5							kg
Storage temperature range	-40 ~ 70							°C
Operating temperature range	-30 ~ 60							°C
Relative humidity range	0% ~ 100%							
Max. operating altitude	4000							m
Cooling	Natural convection							
System ingress protection rating	IP66							
Communication	WLAN / Fast Ethernet / RS485 / Signen CommMod (4G/3G/2G)							
Installation method	Wall-mounted							
Night consumption	3							W
Noise	28							dB

- ¹ This refers to the load-side disruption time, to achieve this functionality Signen Energy Gateway needs to be used together with Signen Battery and Signen Hybrid Inverter. Test conditions: In the open-circuit state of the power grid, the nominal power of the Signen Hybrid Inverter is higher than the total power of the home loads.
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