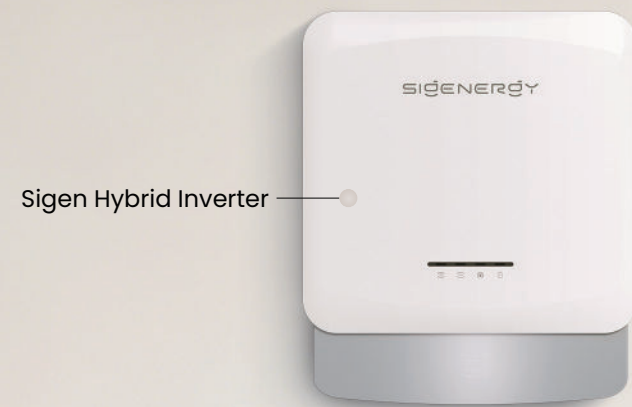




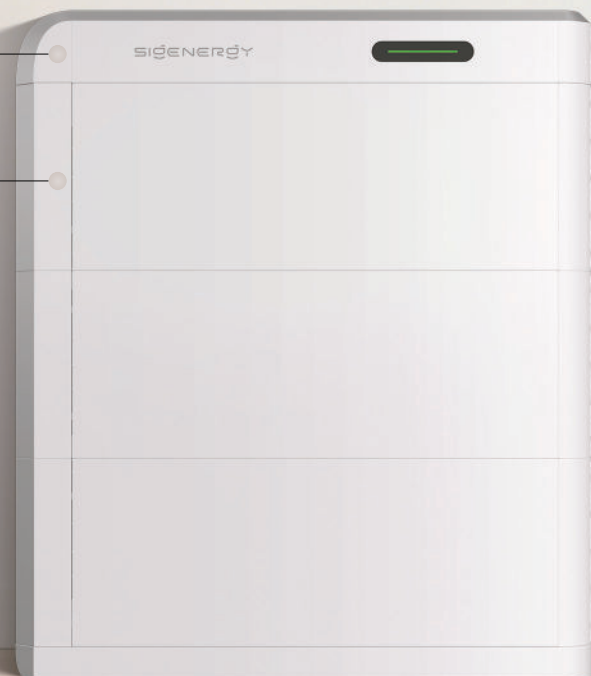
Sigen Hybrid Inverter

Harmoniously Complementing Your Home



Sigen Battery Controller
(SigenStor BC)

Sigen Battery
(SigenStor BAT)



99mm
ultra slim design

25 dB
Super silent

IP66

Wide operating temperature
From -30 °C to 60 °C

99.0%
Industry-leading max. efficiency

200%
Peak output power while off-grid
(Three phase, 10 seconds)

200%
DC/AC ratio for higher yield

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 ¹				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 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

[illegible]

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 ²	0							ms

Max. efficiency					98.6%		
European efficiency	97.5%	98.0%	98.1%	98.2%	98.3%	98.3%	98.3%

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
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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 / Sigent CommMod (4G/3G/2G)	
Installation method	Wall-mounted	
Night consumption	2.5	W
Noise	25	dB

Standard ³	IEC/EN 62109-1, IEC/EN 62109-2, IEC/EN 61000-6-1, IEC/EN 61000-6-2
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- JOY GREEN ENERGY
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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 ¹					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 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

[illegible][illegible]

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%

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
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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 / Sigent CommMod (4G/3G/2G)	
Installation method	Wall-mounted	
Night consumption	3	W
Noise	28	dB

Standard ³	IEC/EN 62109-1, IEC/EN 62109-2, IEC/EN 61000-6-1, IEC/EN 61000-6-2
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- Version:2025111