

Sigen Hybrid Inverter 8.0–12.0 kW Single Phase Australia

Sigen Hybrid	8.0 SP AU	10.0 SP AU	12.0 SP AU	Units
DC Input				
Max. PV power	16000	20000	24000	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	3	4	4	
Number of PV strings per MPPT		1		
Max. input current per MPPT		16		A
Max. short-circuit current per MPPT		20		A
AC Output (on-grid)				
Nominal output power	8000	9999	12000	W
Max. output apparent power	8800	9999	12000	VA
Nominal output current	36.4	43.4	54.6	A
Max. output current	40.0	43.4	54.6	A
Nominal output voltage		220 / 230		V
Nominal grid frequency		50 / 60		Hz
Power factor		0.8 leading ~ 0.8 lagging		
Total current harmonic distortion		THDi < 2%		
Efficiency				
Max. efficiency		97.6%		
European efficiency		97%		
Additional Features**				
Compatible battery module		SigenStor BAT 5.0 / 8.0		
Number of modules per controller		1 ~ 6		pcs
Battery module voltage range		300 ~ 600		V
Battery Max. Continue Current		65		A
Protection				
Safety protection feature	DC reverse polarity protection, Insulation monitoring, Residual current monitoring, Arc fault circuit interrupter I, AC overcurrent/overvoltage/short-circuit protection, Type II DC/AC surge protection, Anti-islanding protection			
Inverter topology	Non-isolation			
Protective class	I			
Overvoltage category	DC II, AC III			
Active anti-islanding protection	Frequency shift			
General Data				
Dimensions (W / H / D)	700 / 300 / 283			mm
Weight	36			kg
Storage temperature range	-40 ~ 70			°C
Operating temperature range	-30 ~ 60			°C
Relative humidity range	0% ~ 95%			
Max. operating altitude	4000			m
Cooling	Smart air cooling			
Ingress protection rating	IP66			
Installation method	Wall-mounted			
Communication	WLAN / Fast Ethernet / RS485 / Sigen CommMod (4G/3G/2G)			

1. This is an optional feature only supported in certain models, please contact Sigenenergy for more information.

2. For all standards refer to the certificates category in the Sigenenergy website.

* Country of manufacture: China

** The energy storage function will be activated after the battery license has been bought by the customer

Sigen Energy Controller 8.0–12.0 kW Single Phase Australia

SigenStor EC	8.0 SP AU	10.0 SP AU	12.0 SP AU	Units
DC Input				
Max. PV power	16000	20000	24000	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	3	4	4	
Number of PV strings per MPPT		1		
Max. input current per MPPT		16		A
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Nominal output power	8000	9999	12000	W
Max. output apparent power	8800	9999	12000	VA
Nominal output current	36.4	43.4	54.6	A
Max. output current	40.0	43.4	54.6	A
Nominal output voltage		220 / 230		V
Nominal grid frequency		50 / 60		Hz
Power factor	0.8 leading ~ 0.8 lagging			
Total current harmonic distortion	THDi < 2%			
Efficiency				
Max. efficiency	97.6%			
European efficiency	97%			
Additional Features				
Compatible battery module	SigenStor BAT 5.0 / 8.0			
Number of modules per controller	1 ~ 6			pcs
Battery module voltage range	300 ~ 600			V
Battery Max. Continue Current	65			A
Protection				
Safety protection feature	DC reverse polarity protection, Insulation monitoring, Residual current monitoring, Arc fault circuit interrupter I, AC overcurrent/overvoltage/short-circuit protection, Type II DC/AC surge protection, Anti-islanding protection			
Inverter topology	Non-isolation			
Protective class	I			
Overvoltage category	DC II, AC III			
Active anti-islanding protection	Frequency shift			
General Data				
Dimensions (W / H / D)	700 / 300 / 283			mm
Weight	36			kg
Storage temperature range	-40 ~ 70			°C
Operating temperature range	-30 ~ 60			°C
Relative humidity range	0% ~ 95%			
Max. operating altitude	4000			m
Cooling	Smart air cooling			
Ingress protection rating	IP66			
Installation method	Wall-mounted			
Communication	WLAN / Fast Ethernet / RS485 / Sigen CommMod (4G/3G/2G)			

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