



Sigen Energy Gateway Home

- Seamless switch to backup mode, worry-free energy usage
- 350 ms reverse power flow protection of grid
- Uninterrupted power supply through PV+ESS/grid
- Support both whole home backup & partial home backup

Sigen Energy Gateway Home¹

Sigen Gateway	Home SP 12K	Home TP 30K	Units
Grid Connection			
Grid connection type	Single phase	Three phase	
Nominal AC voltage	220 / 230 / 240	380 / 400	V
Nominal AC current	52.2	45.6	A
Nominal AC power	12	30	kW
Nominal AC frequency	50 / 60		Hz
Disruption time of backup switch ²	0		ms
AC Output to Backup Port			
Nominal AC voltage	220 / 230 / 240	380 / 400	V
Nominal AC current	52.2	45.6	A
Nominal AC power	12	30	kW
Nominal AC frequency	50 / 60		Hz
Overvoltage category	III		
AC Output to Non-Backup Port			
Nominal AC voltage	220 / 230 / 240	380 / 400	V
Nominal AC current	52.2	45.6	A
Nominal AC power	12	30	kW
Nominal AC frequency	50 / 60		Hz
Inverter Connection			
Nominal AC voltage	220 / 230 / 240	380 / 400	V
Nominal AC current	52.2 (INV1), 32 (INV2) ³	45.6	A
Nominal AC power	12 / 6 ³	30	kW
General Data			
Dimensions (W / H / D)	590 / 400 / 156		mm
Weight	17.5	19	kg
Storage temperature range	-40 ~ 70		°C
Operating temperature range	-30 ~ 55		°C
Relative humidity range	0% ~ 100%		
Max. operation altitude	4000		m
Cooling	Natural convection		
Ingress protection rating	IP54		
Communication	Fast Ethernet, dry contact		
Installation method	Wall mounted		

1. Sigen Energy Gateway Home version is only available in specific regions. Please contact Sigenergy or local distributors for details.
2. This refers to the load-side disruption time, to achieve this functionality Sigen Energy Gateway needs to be used together with Sigen Energy Controller and Sigen Battery. Test conditions: In the open-circuit state of the power grid, the nominal power of the Sigen Energy Controller is higher than the total power of the backup loads.
3. For Sigenergy single phase inverter products, 8.0-12.0 kW inverters should be connected to the INV1 port, 3.0-6.0 kW inverters should be connected to the INV2 port. Only one inverter can be connected to the Gateway.