Sigen Energy Gateway



- Multiple Sigen C&I inverters connections supported for micro-grid system
- Seamless switchover, ensuring 0ms load-side disruption
- Built-in bypass circuit for enhanced system reliability
- Supports diesel generator connection & smart control
- Real-time current monitoring with 100ms zero export

Enjoy Green Energy

Sigen Energy Gateway for Sigen C&I Inverter

Sigen Gateway	C600-B	C1200-B	Units
Grid Connection			
Grid connection type	Three phase		
Nominal AC voltage	380 ~ 400		V
Nominal AC current	912	1,824	A
Nominal AC power	600	1,200	kW
Nominal AC frequency	50 / 60		Hz
Disruption time of backup switch [1]	0		ms
AC Output to Backup Port			
Nominal AC voltage	380 ~ 400		V
Nominal AC current	912	1,824	A
Nominal AC power	600	1,200	kW
Nominal AC frequency	50 / 60		Hz
Overvoltage category	III		
Inverter Connection			
Number of connection ports	10	20	
Nominal AC voltage	380 ~ 400		V
Max. AC input current [2]	200 (6 ports), 160 (4 ports)	200 (12 ports), 160 (8 ports)	A
Max. AC power [2]	125 (6 ports), 80 (4 ports)	125 (12 ports), 80 (8 ports)	kW
Smart Port Connection			
Generator output voltage	380 ~ 400		V
Nominal AC current	912	1,824	A
Nominal AC power	600	1,200	kW
Generator 2-wire start	Supported		
General Data			
Dimensions (W / H / D)	1,800 / 2,300 / 1,270		mm
Weight	1,100	1,300	kg
Storage temperature range	-40 ~ 70		°C
Operating temperature range [3]	-30 ~ 55		°C
Relative humidity range	0% ~ 95%		
Max. operation altitude [3]	4,000		m
Cooling	Smart air cooling		
Ingress protection rating	IP20		
Communication	Fast Ethernet, RS485, dry contact		
Installation method	Ground-mounted		

1. This refers to the load-side disruption time, to achieve this functionality Sigen Energy Gateway needs to be used together with Sigen Hybrid Inverter and Sigen Battery. Test conditions: In the open-circuit state of the power grid, the total power of the Sigen Hybrid Inverter is higher than the total power of the backup loads.
2. This series of energy gateway has two types of molded case circuit breakers inside, please refer to the installation guide for their specific mounting locations.
3. Please consult Sigenergy for detailed power derating information.

Sigen Energy Gateway

Modular design for flexible and precise deployment



- Multiple Sigen C&I inverters connections supported for micro-grid system
- Modular cabinet, effortless side-by-side installation
- Seamless switchover, ensuring 0ms load-side disruption
- Built-in bypass circuit for enhanced system reliability
- Supports diesel generator connection & smart control
- Real-time current monitoring with 100ms zero export

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Sigen Energy Gateway for Sigen C&I Inverter

Preliminary

Energy Gateway Grid Switch Cabinet [1]

Sigen Gateway	C1600-B-GS	C2000-B-GS	C2400-B-GS	Units
Grid connection type		Three phase		
Nominal AC voltage		380 ~ 400		V
Nominal AC current	2,432	3,039	3,647	A
Nominal AC power	1,600	2,000	2,400	kW
Nominal AC frequency		50 / 60		Hz
Disruption time of backup switch [2]		0		ms
Dimensions (W / H / D)		800 / 2,200 / 1,000		mm
Weight	600	660	680	kg

Energy Gateway Smart Load Cabinet (Optional)

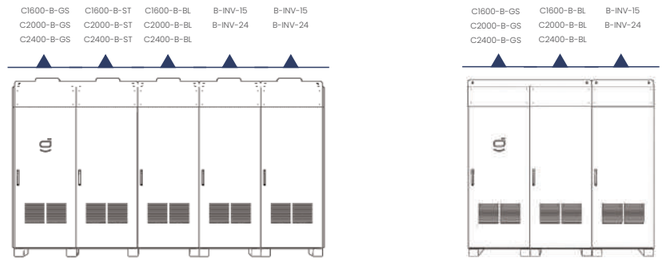
Sigen Gateway	C1600-B-ST	C2000-B-ST	C2400-B-ST	Units
Generator output voltage		380 ~ 400		V
Nominal AC current	2,432	3,039	3,647	A
Nominal AC power	1,600	2,000	2,400	kW
Generator 2-wire start		Supported		
Dimensions (W / H / D)		800 / 2,200 / 1,000		mm
Weight	600	660	680	kg

Energy Gateway Backup Load Cabinet

Sigen Gateway	C1600-B-BL	C2000-B-BL	C2400-B-BL	Units
Nominal AC voltage		380 ~ 400		V
Nominal AC current	2,432	3,039	3,647	A
Nominal AC power	1,600	2,000	2,400	kW
Nominal AC frequency		50 / 60		Hz
Overvoltage category		III		
Dimensions (W / H / D)		800 / 2,200 / 1,000		mm
Weight	600	660	680	kg

Energy Gateway Inverter Cabinet

Sigen Gateway	B-INV-15 [3]	B-INV-24 [3]	Units
Number of connection ports	15	24	
Nominal AC voltage	380 ~ 400		V
Max. AC input current per connection	200	160	A
Max. AC input power per connection	125	80	kW
Dimensions (W / H / D)	800 / 2,200 / 1,000		mm
Weight	600	660	kg



System General Data

Storage temperature range	-40 ~ 70	°C
Operating temperature range [4]	-30 ~ 55	°C
Relative humidity range	0% ~ 95%	
Max. operation altitude [4]	4,000	m
Cooling	Smart air cooling	
Ingress protection rating	IP20	
Communication	Fast Ethernet, RS485, dry contact	
Installation method	Ground-mounted	

1. Grid switch cabinets (C1600-B-GS/C2000-B-GS/C2400-B-GS), backup load cabinets (C1600-B-BL/C2000-B-BL/C2400-B-BL) and smart load cabinets (C1600-B-ST/C2000-B-ST/C2400-B-ST) must be matched exclusively within their respective series. Cross-series combinations are not compatible.
2. This refers to the load-side disruption time, to achieve this functionality Sigen Energy Gateway needs to be used together with Sigen Hybrid Inverter and Sigen Battery. Test conditions: In the open-circuit state of the power grid, the total power of the Sigen Hybrid Inverter is higher than the total power of the backup loads.
3. Sigen Gateway B-INV-15 supports the connection of 15 inverters. Sigen Gateway B-INV-24 supports the connection of 24 inverters. The two types of cabinets can be deployed in combination to expand inverter connection capacity.
4. Please consult Sigenergy for detailed power derating information.
5. In accordance with IEC 60364-4-43, if the existing load-side distribution cabinet is already fitted with overload protection device and is installed within 3 m of Sigen Energy Gateway, a back load cabinet is not required, and a combiner panel cabinet (Sigen Gateway B-CP) can be selected.
6. If the inverter connection ports of inverter cabinets are insufficient, expansion and customization via a combiner panel cabinet (Sigen Gateway B-CP) are available. Please consult Sigenergy for details.

Sigen Energy Gateway



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Sigen Energy Gateway for SigenStor

Sigen Gateway	C60-2	C120-6	C180-9	C300-12	C600	C1200	Units
Grid Connection							
Grid connection type	Three phase						
Nominal AC voltage	380 ~ 400						V
Nominal AC current	91.2	182.4	274	456	912	1,824	A
Nominal AC power	60	120	180	300	600	1,200	kW
Nominal AC frequency	50 / 60						Hz
Disruption time of backup switch [1]	0						ms
AC Output to Backup Port							
Nominal AC voltage	380 ~ 400						V
Nominal AC current	91.2	182.4	274	456	912	1,824	A
Nominal AC power	60	120	180	300	600	1,200	kW
Nominal AC frequency	50 / 60						Hz
Overvoltage category	III						
Inverter Connection							
Number of connection ports	2	6	9	12	30	50	
Nominal AC voltage	380 ~ 400						V
Nominal AC current	45.6						A
Smart Port Connection							
Generator output voltage	380 ~ 400						V
Nominal AC current	91.2	182.4	274	456	912	1,824	A
Nominal AC power	60	120	180	300	600	1,200	kW
Generator 2-wire start	Supported						
General Data							
Dimensions (W / H / D)	510 / 795 / 173	850 / 1,152 / 305	800 / 2,300 / 830		1,800 / 2,300 / 1,270		mm
Weight	35	74	350	400	1,100	1,300	kg
Storage temperature range	-40 ~ 70						°C
Operating temperature range [2]	-30 ~ 55						°C
Relative humidity range	0% ~ 100%		0% ~ 95%		0% ~ 95%		
Max. operation altitude [2]	4,000						m
Cooling	Natural convection		Natural convection		Smart air cooling		
Ingress protection rating	IP55		IP20		IP20		
Communication	Fast Ethernet , RS485, dry contact						
Installation method	Wall-mounted		Ground-mounted		Ground-mounted		

1. 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 total power of the Sigen Energy Controller is higher than the total power of the backup loads.
2. Please consult Sigenergy for detailed power derating information and customized requirements.