

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 350ms anti-backflow protection

Sigen Energy Gateway for Sigen C&I Inverter

Preliminary

Energy Gateway Main Cabinet¹

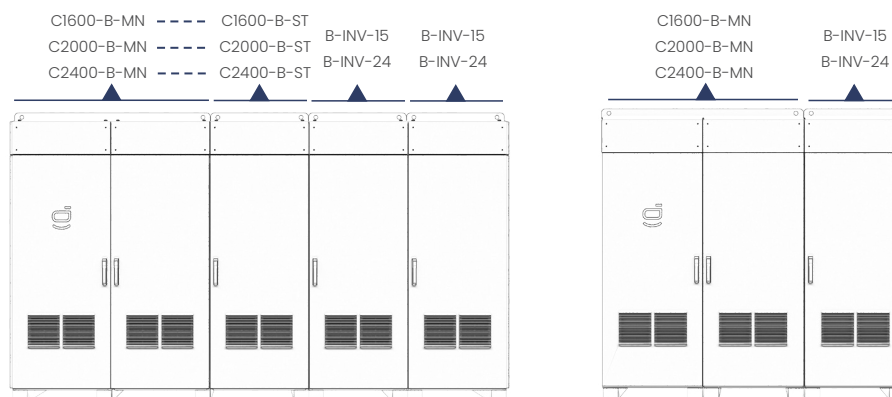
Sigen Gateway	C1600-B-MN	C2000-B-MN	C2400-B-MN	Units
Grid connection type	Three phase			
Nominal AC voltage	380 ~ 400			V
Nominal AC current	2,432	3,039	3,647	A
Nominal AC power	1,600	2,000	2,400	kW
Nominal AC frequency	50 / 60			Hz
Disruption time of backup switch ²	0			ms
Overvoltage category	III			
Dimensions (W / H / D)	1,600 / 2,200 / 1,000			mm
Weight	1,250	1,400	1,450	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 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	190	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	

- The main cabinet models (C1600-B-MN/C2000-B-MN/C2400-B-MN) must be exclusively paired with their corresponding smart load cabinet models (C1600-B-ST/C2000-B-ST/C2400-B-ST respectively). Cross-series combinations are not compatible.
- 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 nominal power of the Sigen Hybrid Inverter is higher than the total power of the backup loads.
- 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.
- Please consult Sigenenergy for detailed power derating information and customized requirements.

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