

# 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

## Energy Gateway Grid Switch Cabinet<sup>1</sup>

Signen 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 <sup>2</sup>	0			ms
Dimensions (W / H / D)	800 / 2,200 / 1,000			mm
Weight	600	660	680	kg

## Energy Gateway Backup Load Cabinet

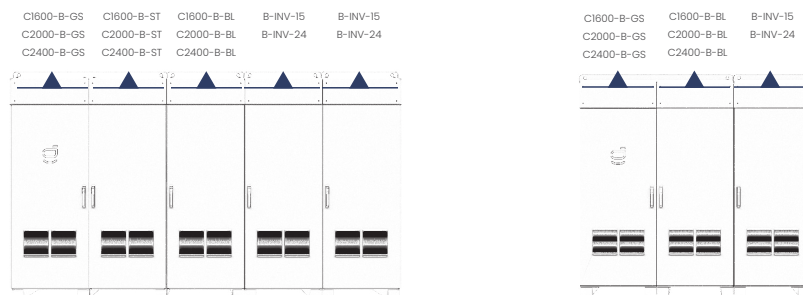
Signen Gateway	C1600-B-BL	C2000-B-BL	C2400-B-BL	Units
Nominal AC voltage	380 ~ 400			V
Nominal AC current	2,432	3,039	3,647	A
Nominal AC power	1,600	2,000	2,400	kW
Nominal AC frequency	50 / 60			Hz
Overvoltage category	III			
Dimensions (W / H / D)	800 / 2,200 / 1,000			mm
Weight	600	660	680	kg

## Energy Gateway Smart Load Cabinet (Optional)

Signen 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

Signen Gateway	B-INV-15 <sup>3</sup>	B-INV-24 <sup>3</sup>	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 <sup>4</sup>	-30 ~ 55	°C
Relative humidity range	0% ~ 95%	
Max. operation altitude <sup>4</sup>	4,000	m
Cooling	Smart air cooling	
Ingress protection rating	IP20	
Communication	Fast Ethernet, RS485, dry contact	
Installation method	Ground-mounted	

- 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.
- This refers to the load-side disruption time, to achieve this functionality Signen Energy Gateway needs to be used together with Signen Hybrid Inverter and Signen Battery. Test conditions: In the open-circuit state of the power grid, the total power of the Signen Hybrid Inverter is higher than the total power of the backup loads.
- Signen Gateway B-INV-15 supports the connection of 15 inverters. Signen 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 Signenergy for detailed power derating information.
- 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 Signen Energy Gateway, a back load cabinet is not required, and a combiner panel cabinet (Signen Gateway B-CP) can be selected.
- If the inverter connection ports of inverter cabinets are insufficient, expansion and customization via a combiner panel cabinet (Signen Gateway B-CP) are available. Please consult Signenergy for details.