

Sigen Energy Gateway



- Multiple SigenStor 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 350ms anti-backflow protection



Sigen Energy Gateway for SigenStor

Grid Connection Orid Connection type Three phase Nominal AC voltage 380 - 400 V Nominal AC coursent 912 1824 274 456 912 1,824 A Nominal AC prequency 50 / 60 120 180 300 600 1200 kW AC Output to Backup switch 1 0 ms AC Cutput to Backup Port V Nominal AC voltage 380 - 400 V Nominal AC unrent 912 1824 274 456 912 1824 A Nominal AC power 60 120 180 300 600 1200 kW Nominal AC power 60 120 180 300 600 1200 kW Nominal AC power 60 120 180 300 600 1200 kW Nominal AC voltage 380 - 400 12 30 50 Nominal AC voltage 380 - 400	Sigen Gateway	C60-2	C120-6	C180-9	C300-12	C600	C1200	Units	
Nominal AC voltage	Grid Connection								
Nominal AC current 912 1824 274 456 912 1824 A Nominal AC power 60 120 180 300 600 1200 MW Nominal AC fiequency 50 / 60 ms MS MS MS MS MS MS MS M	Grid connection type	Three phase							
Nominal AC power 60 120 180 300 600 1,200 kW Nominal AC frequency 50 / 60 ms Ms Ms Ms Ms Ms Ms Ms	Nominal AC voltage	380 ~ 400						V	
Nominal AC frequency 50 / 60 Hz Disruption time of backup switch 0 0 ms ms	Nominal AC current	91.2	182.4	274	456	912	1,824	А	
Disruption time of backup Port AC Output to Backup Port Naminal AC voltage 380 - 400 1 V Nominal AC current 912 1824 274 456 912 1,824 A Nominal AC power 60 120 180 300 600 1,200 kW Nominal AC frequency 50 / 60 10 Hz 1	·	60	120			600	1,200		
Nominal AC voltage		<u> </u>							
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 III III IV IV <td rows<="" td=""><td>Disruption time of backup switch ¹</td><td colspan="6">0</td><td>ms</td></td>	<td>Disruption time of backup switch ¹</td> <td colspan="6">0</td> <td>ms</td>	Disruption time of backup switch ¹	0						ms
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 III	AC Output to Backup Port								
Nominal AC power 60 120 180 300 600 1,200 kW Nominal AC frequency 50 / 60 Hz Hz Overvoltage category Hz Hz Hz Hz Hz Description of Connection Hz Hz <t< td=""><td>Nominal AC voltage</td><td></td><td></td><td>380 -</td><td>~ 400</td><td></td><td></td><td>V</td></t<>	Nominal AC voltage			380 -	~ 400			V	
Nominal AC frequency Overvoltage category 50 / 60 / 10 / 10 / 10 / 10 / 10 / 10 / 1	Nominal AC current	91.2	182.4	274	456	912	1,824	Α	
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 9 12 30 50 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 Generat 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 1,000 1,300 kg Storage temperature range - 40 - 70 °C <t< td=""><td>Nominal AC power</td><td>60</td><td>120</td><td></td><td></td><td>600</td><td>1,200</td><td>kW</td></t<>	Nominal AC power	60	120			600	1,200	kW	
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 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 3 - 30 - 55 °C Relative humicity range 0% - 100% 0% - 95% 0% - 95% Max. operation altitude 4,000 Natural convection Smart air cooling Ingress protection rating 1P54 1P20 1P20 Ingress protection rating 1P54 1P20 1P20 1P20 Ingress protection rating 1P54 1P20 1P20 1P20 Ingress protection rating 1P54 1P20 1P20 1P20 1P20 Ingress protection rating 1P54 1P20 1P20 1P20 1P20 1P20 1P20 1P20		<u> </u>						Hz	
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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 °C Operating temperature range 2 -30 ~ 55 °C Relative humidity range 0% ~ 100% 0% ~ 95% 0% ~ 95% °C Max. operation altitude 2 4,000 smart air cooling Max operation rating 1P54 1P20 1P20 Communication	Nominal AC voltage	380 ~ 400						V	
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 °C °C Operating temperature range 2 -30 ~ 55 °C °C Relative humidity range 0% ~ 100% 0% ~ 95% 0% ~ 95% °C Max. operation altitude 2 4,000 Smart air cooling m Cooling Natural convection Natural convection Smart air cooling IP20 IP20 IP20 IP20 IP20 IP20 IP20 IP2	Nominal AC current	45.6						А	
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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 °C Operating temperature range 2 -30 ~ 55 °C °C Relative humidity range 0% ~ 100% 0% ~ 95% 0% ~ 95% 0% ~ 95% m Max. operation altitude 2 4,000 m m Cooling Natural convection Natural convection Smart air cooling Ingress protection rating IP54 IP20 IP20 IP20 IP20	Nominal AC current	91.2	182.4	274	456	912	1,824	А	
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 °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 IP54 IP20 IP20 Communication Fast Ethernet, RS485, dry contact IP20	Nominal AC power	60	120	180	300	600	1,200	kW	
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 IP54 IP20 IP20 Communication Fast Ethernet, RS485, dry contact IP20 IP20	Generator 2-wire start	Supported							
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 IP54 IP20 IP20 Communication Fast Ethernet, RS485, dry contact	General Data								
Storage temperature range	Dimensions (W / H / D)	510 / 795 / 173	850 / 1,152 / 305	800 / 2,3	800 / 830	1,800 / 2,3	800 / 1,270	mm	
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 IP54 IP20 IP20 Communication Fast Ethernet, RS485, dry contact	Weight	35	74	350	400	1,100	1,300	kg	
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 IP54 IP20 IP20 Communication Fast Ethernet, RS485, dry contact	Storage temperature range	-40 ~ 70				°C			
Max. operation altitude 2 4,000 m Cooling Natural convection Natural convection Smart air cooling Ingress protection rating IP54 IP20 IP20 Communication Fast Ethernet, RS485, dry contact	Operating temperature range ²	-30 ~ 55						°C	
Cooling Natural convection Natural convection Smart air cooling Ingress protection rating IP54 IP20 IP20 Communication Fast Ethernet, RS485, dry contact	Relative humidity range	0% ~ 100%							
Ingress protection rating IP54 IP20 IP20 Communication Fast Ethernet, RS485, dry contact	Max. operation altitude ²	4,000				m			
Communication Fast Ethernet, RS485, dry contact	Cooling	Natural convection Natural convection			Smart air cooling				
	Ingress protection rating	IP54 IP20 IP20							
	Communication	Fast Ethernet, RS485, dry contact							
	Installation method	Wall-mounted Ground-mounted Ground-mounted				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 nominal power of the Sigen Energy Controller is higher than the total power of the backup loads.

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^{2.} Please consult Sigenergy for detailed power derating information and customized requirements.