



# Sigen Energy Gateway

- Multiple breaker positions reserved for SigenStor or other loads
- Seamless switch to backup mode, worry-free energy usage
- Ready for generator, heat pump or other controllable loads
- Support both whole home backup & partial home backup
- 350 ms reverse power flow protection of grid & generator
- Uninterrupted power supply through PV+ESS/grid/generator



# Sigen Energy Gateway Single / Three Phase

Preliminary

Sigen Gateway	HomeMax SP 12K	HomeMax TP	Units
<b>Grid Connection</b>			
Grid connection type	Single phase	Three phase	
Nominal AC voltage	220 / 230 / 240	380 / 400	V
Nominal AC current	100	76	A
Nominal AC power	22 / 23 / 24	50 / 52.6	kW
Nominal AC frequency		50 / 60	Hz
Disruption time of backup switch <sup>1</sup>		0	ms
<b>AC Output to Backup Port</b>			
Nominal AC voltage	220 / 230 / 240	380 / 400	V
Nominal AC current	100	76	A
Nominal AC power	22 / 23 / 24	50 / 52.6	kW
Nominal AC frequency		50 / 60	Hz
Overvoltage category		III	
<b>Inverter Connection / EV Charger Port (optional)</b>			
Max. number of connection	3	2	
Nominal AC voltage	220 / 230 / 240	380 / 400	V
Nominal AC current	55 (INV1), 32 (INV2), 32 (INV3) <sup>2</sup>	38	A
Compatible EV charger power	7	11 / 22	kW
<b>Smart Port Connection</b>			
Generator output voltage	220 / 230 / 240	380 / 400	
Nominal current	63	76	A
Nominal AC power	13.8 / 14.5 / 15.1	50 / 52.6	kW
Generator 2-wire start		Supported	
<b>General Data</b>			
Dimensions (W / H / D)	455 / 660 / 179	510 / 750 / 179	mm
Weight	19	23	kg
Storage temperature range		-40 ~ 70	°C
Operating temperature range		-30 ~ 55 (Power derating when >35°C in on-grid mode)	°C
Relative humidity range		0% ~ 95%	
Max. operation altitude		4000 (Power derating when >2000m)	m
Cooling		Natural convection	
Ingress protection rating		IP54	
Communication		Fast Ethernet, RS485, dry contact	
Installation method		Wall 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.
2. For Sigen 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/INV3 port.