

## Sigen Energy Gateway



- Multiple SigenStor connections supported for micro-grid system
- Seamless backup, worry-free energy usage for your business
- Generator supported, abundant backup power
- 350 ms reverse power flow protection of grid & generator
- Uninterrupted power supply through PV+ESS/grid/generator

## Sigen Energy Gateway

Grid Connection       Strikt connection type     Three phase       Nominal AC voitage     V       Nominal AC voitage     V       Nominal AC voitage     V       Nominal AC voitage     V       Nominal AC requency     V       Disruption time of backup switch <sup>1</sup> 0     Mark Mark Mark Mark Mark Mark Mark Mark	Sigen Gateway	HomeMax TP	C120-6	C180-9	C300-12	C600-30	C1200-50	Units
Nominal AC valtage     980 - 400     V       Nominal AC current     76     182.4     274     456     912     182.4     A       Nominal AC power     50     120     180     300     600     1200     KW       Nominal AC frequency     50     120     180     300     600     1200     KW       Nominal AC frequency     0     0     ms     ms     State     AC     Output to Backup Port     V       Nominal AC voltage     380 ~ 400     V     Nominal AC power     50     120     180     300     600     1200     KW       Nominal AC frequency     10     182.4     274     456     912     182.4     A       Nominal AC frequency     10     180     300     600     1200     KW       Nominal AC frequency     10     180     300     60     120     180     180     180     180     180     180     180     180     180     180     180     180     180 <td< td=""><td>Grid Connection</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	Grid Connection							
Nominal AC current     76     182.4     274     456     912     1824     A       Nominal AC power     50     120     180     300     600     1200     KW       Disruption time of backup switch <sup>1</sup> 0     ms     0     ms       AC Output to Backup Port     0     ms     Ms     Ms     Ms       Nominal AC voltage     380 - 400     V     Ms     Ms     Ms     Ms       Nominal AC power     50     120     180     300     600     1200     KW       Nominal AC power     50     120     180     300     600     1200     KW       Nominal AC frequency     50     120     180     300     600     1200     KW       Nominal AC frequency     10     10     100     KW     Hz     100     KW     100     KW     100     1200     180     1200     180     1200     1200     120     120     120     120     120     120     120     120	Grid connection type	Three phase						
Nominal AC power     50     120     180     300     600     1200     kW       Nominal AC frequency     50 / 60     H2     Disruption time of backup switch <sup>1</sup> 0     ms       AC Output to Backup Port     0     Ms     0     ms       Nominal AC voltage     380 - 400     V     Nominal AC current     76     182.4     274     456     912     182.4     A       Nominal AC power     50     120     180     300     600     1200     kW       Nominal AC frequency     50 / 60     H2     300     600     1200     kW       Nominal AC requency     50 / 80     100     70     182     A     A       Nominal AC voltage     380 - 400     V     100     50     100     50     Nominal AC voltage     V       Nominal AC output current     38     45.6     45.6     45.6     45.6     A       Generator Connection     V     Max AC input current     38     45.6     45.6     912     182.4     A	Nominal AC voltage							V
Nominal AC frequency     50 / 60     Hz       Disruption time of backup switch <sup>1</sup> 0     mms       AC Output to Backup Port     0     mms       Nominal AC voltage     380 - 400     V       Nominal AC sourcent     76     182.4     274     456     912     1824     A       Nominal AC sourcent     76     182.4     274     456     912     1824     A       Nominal AC sourcent     76     182.4     274     456     912     1824     A       Nominal AC sourcest     50 / 60     50 / 60     Hz     V     Nominal AC trequency     50 / 60     Hz       Overvoltage category     III     IIII     IIII     IIII     IIII     IIII     IIII     IIII     IIII     IIIIIIII     IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Nominal AC current	76	182.4	274	456	912	1824	А
Disruption time of backup switch <sup>1</sup> 0     ms       AC Output to Backup Port     380 - 400     V       Nominal AC voltage     380 - 400     V       Nominal AC voltage     76     182.4     274     456     912     1824     A       Nominal AC power     50     120     180     300     600     1200     kW       Nominal AC frequency     50 / 60     Hz     76     182.4     A       Overvoltage category     III     IIII     IIII     IIII     IIII     IIII     IIII     IIII     IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Nominal AC power	50	120	-		600	1200	kW
AC Output to Backup Port     V       Naminal AC valtage     380 - 400     V       Naminal AC current     76     182.4     274     456     912     182.4     A       Naminal AC frequency     50     120     180     300     600     120     180       Naminal AC frequency     50 / 60     III     182     A     Naminal AC frequency     182     A       Overvoltage category     III     III     Inverter Connection     182     30     50     IX       Number of connection ports     2     6     9     12     30     50     IX       Naminal AC voltage     380 - 400     V     V     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X	,	50 / 60						Hz
Nominal AC voltage     380 - 400     V       Nominal AC current     76     182.4     274     456     912     182.4     A       Nominal AC power     50     120     180     300     600     1200     KW       Nominal AC frequency     50 / 60     III     100     KW     Nominal AC frequency     Hz     000     KW       Inverter Connection     III     III     III     III     Nominal AC voltage     2     6     9     12     30     50      XV       Nominal AC voltage     380 - 400     V     XV     XV </td <td>Disruption time of backup switch <sup>I</sup></td> <td colspan="6">0</td> <td>ms</td>	Disruption time of backup switch <sup>I</sup>	0						ms
Nominal AC current     76     182.4     274     456     912     182.4     A       Nominal AC power     50     120     180     300     600     1200     kW       Nominal AC frequency     50     120     180     300     600     1200     kW       Nominal AC frequency     50     60     120     180     300     600     1200     kW       Number of connection ports     2     6     9     12     30     50       Number of connection ports     2     6     9     12     30     50       Nominal AC voltage     380 - 400     V     Max. AC input current     38     45.6     45.6     45.6     45.6     A       Generator Connection     380 - 400     V     Nominal AC power     50     120     180     300     600     1200     kW       Generator 2-wire start     Supported     Supported     Suported     Suported     Suported     Suported     Suported     Suported     Suported     Suported<	AC Output to Backup Port							
Nominal AC power     50     120     180     300     600     1200     kW       Nominal AC frequency     50 / 60     H2     H2     Overvoltage category     H2     H2     III     H2     III     IIII     IIII     IIII     III     IIII     III     III     IIII     IIII     IIII     IIII     IIII     IIII     IIIII     IIIII     IIII	Nominal AC voltage	380 ~ 400						V
Nominal AC frequency     Sol / 60     Hz       Overvoltage category     III     Hz       Inverter Connection     III     Hz       Number of connection ports     2     6     9     12     30     50       Nominal AC voltage     380 ~ 400     V     V     Max. AC input current     38     45.6     45.6     45.6     45.6     A       Generator Connection     38     45.6     45.6     45.6     45.6     A       Generator output voltage     380 ~ 400     V     V     Nominal AC current     76     182.4     274     456     912     1824     A       Nominal AC power     50     120     180     300     600     1200     kW       Generator 2-wire start     Supported     Supported     V     V     Mmmm     Mmm     Mex	Nominal AC current	76	182.4	274	456	912	1824	А
Overvoltage category     III       Inverter Connection     Number of connection ports     2     6     9     12     30     50       Nominal AC voltage     380 ~ 400     V     Max. AC input current     38     45.6     45.6     45.6     45.6     A       Generator Connection     380 ~ 400     V     V     Max. AC input current     38     45.6     45.6     45.6     45.6     A       Generator Connection     Generator current     76     182.4     274     456     912     182.4     A       Nominal AC power     50     120     180     300     600     1200     kW       Generator 2-wire start     Supported     Supported     Generator 2-wire start     Supported     Generator 2     Max     445     400     1500     kgg       Dimensions (W / H / D)     510 / 750 / 179     850 / 100 / 305     800 / 2300 / 830     1800 / 2300 / 1270     mm       Weight     23     74     345     400     1500     kgg       Storage temperature range	Nominal AC power	50	120	180	300	600	1200	kW
Inverter Connection       Number of connection ports     2     6     9     12     30     50       Nominal AC voltage     380 - 400     V     V     V       Max. AC input current     38     45.6     45.6     45.6     45.6     A       Generator Connection     380 - 400     V     V     V     V     V       Nominal AC current     76     182.4     274     456     912     1824     A       Nominal AC current     76     182.4     274     456     912     1824     A       Nominal AC power     50     120     180     300     600     1200     kW       Generator 2-wire start     Supported     Supported     Generation     Generation     WW     Generation     1800 / 2300 / 1270     mm       Weight     23     74     345     400     1500     kg     Storage temperature range     -40 - 70     °C		50 / 60						Hz
Number of connection ports     2     6     9     12     30     50       Nominal AC voltage     380 - 400     V       Max. AC input current     38     45.6     45.6     45.6     45.6     A       Generator Connection     380 - 400     V     V     V       Generator output voltage     380 - 400     V     V       Nominal AC current     76     182.4     274     456     912     1824     A       Nominal AC power     50     120     180     300     600     1200     kW       Generat Data     Supported     Supported     V     V     Mm	Overvoltage category							
Nominal AC voltage     380 - 400     V       Max. AC input current     38     45.6     45.6     45.6     45.6     A       Generator Connection     State     State     State     State     State     State     A       Generator output voltage     380 - 400     V     V     V     Nominal AC current     76     182.4     274     456     912     1824     A       Nominal AC power     50     120     180     300     600     1200     kW       Generator 2-wire start     Supported     Supported     V     Mmm     Mmm       Dimensions (W / H / D)     510 / 750 / 179     850 / 100 / 305     800 / 2300 / 830     1800 / 2300 / 1270     mm       Weight     23     74     345     400     1500     kgg       Storage temperature range     -40 - 70     °C	Inverter Connection							
Max. AC input current     38     45.6     45.6     45.6     45.6     45.6     45.6     A       Generator Connection     Second	Number of connection ports	2	6	9	12	30	50	
Generator Connection     380 ~ 400     V       Generator output voltage     380 ~ 400     V       Nominal AC current     76     182.4     274     456     912     1824     A       Nominal AC power     50     120     180     300     600     1200     kW       Generator 2-wire start     Supported     Supported     C     C     C     C     C     C     C     Nominal AC power     510 / 750 / 179     850 / 100 / 305     800 / 2300 / 830     1800 / 2300 / 1270     mm     M     Weight     23     74     345     400     1500     kg     Storage temperature range     -40 ~ 70     °C     C     Operating temperature range     °C     °C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C	Nominal AC voltage	380 ~ 400						V
Generator output voltage     380 ~ 400     V       Nominal AC current     76     182.4     274     456     912     1824     A       Nominal AC power     50     120     180     300     600     1200     kW       Generator 2-wire start     Supported     Supported     Supported     V     Mominal AC power     50     120     180     300     600     1200     kW       Generator 2-wire start     Supported     Supported     Supported     V     Mominal AC power     Mominal AC power     50     100 / 305     800 / 2300 / 830     1800 / 2300 / 1270     mm       Weight     23     74     345     400     1500     kg     Kg       Storage temperature range     -40 ~ 70     °C     °C     °C     °C     °C     Relative humidity range     °C	Max. AC input current	38	45.6	45.6	45.6	45.6	45.6	A
Nominal AC current     76     182.4     274     456     912     1824     A       Nominal AC power     50     120     180     300     600     1200     kW       Generator 2-wire start     Supported	Generator Connection							
Nominal AC power     50     120     180     300     600     1200     kW       Generator 2-wire start     Supported     Su	Generator output voltage	380 ~ 400						V
Generator 2-wire start     Supported       General Data     Supported       Dimensions (W / H / D)     510 / 750 / 179     850 / 100 / 305     800 / 2300 / 830     1800 / 2300 / 1270     mm       Weight     23     74     345     400     1500     1500     kg       Storage temperature range     -40 ~ 70     °C     °C     °C     °C       Operating temperature range 2     -30 ~ 55     °C     °C     °C       Relative humidity range     0% ~ 95%     °C     °C     °C     °C       Gooing     Natural convection     Smart air cooling     m     °C     °C       Ingress protection rating     IP54     IP20     Communication     Fast Ethernet , RS485, dry contact	Nominal AC current	76	182.4	274	456	912	1824	A
General Data       Dimensions (W / H / D)     510 / 750 / 179     850 / 100 / 305     800 / 2300 / 830     1800 / 2300 / 1270     mm       Weight     23     74     345     400     1500     1500     kg       Storage temperature range     -40 ~ 70     °C     °C     °C     °C       Operating temperature range 2     -30 ~ 55     °C     °C     °C       Relative humidity range     0% ~ 95%     °C     °C       Max. operation altitude 2     4000     m     m       Cooling     Natural convection     Smart air cooling     m       Ingress protection rating     IP54     IP20     Communication     IP20	Nominal AC power	50	120	180	300	600	1200	kW
Dimensions (W / H / D)   510 / 750 / 179   850 / 1100 / 305   800 / 2300 / 830   1800 / 2300 / 1270   mm     Weight   23   74   345   400   1500   1500   kg     Storage temperature range   -40 ~ 70   °C     Operating temperature range <sup>2</sup> -30 ~ 55   °C     Relative humidity range   0% ~ 95%   °C     Max. operation altitude <sup>2</sup> 4000   mm     Cooling   Natural convection   Smart air cooling     Ingress protection rating   IP54   IP20	Generator 2-wire start	Supported						
Weight     23     74     345     400     1500     kg       Storage temperature range     -40 ~ 70     °C       Operating temperature range <sup>2</sup> -30 ~ 55     °C       Relative humidity range     0% ~ 95%     °C       Max. operation altitude <sup>2</sup> 4000     m       Cooling     Natural convection     Smart air cooling       Ingress protection rating     IP54     IP20       Communication     Fast Ethernet , RS485, dry contact     IP20	General Data							
Storage temperature range -40 ~ 70 °C   Operating temperature range <sup>2</sup> -30 ~ 55 °C   Relative humidity range 0% ~ 95% °C   Max. operation altitude <sup>2</sup> 4000 m   Cooling Natural convection Smart air cooling   Ingress protection rating IP54 IP20   Communication Fast Ethernet , RS485, dry contact Value	Dimensions (W / H / D)	510 / 750 / 179	850 / 1100 / 305	800 / 23	00 / 830	1800 / 23	00 / 1270	mm
Operating temperature range 2 -30 ~ 55 °C   Relative humidity range 0% ~ 95%    Max. operation altitude 2 4000 m   Cooling Natural convection Smart air cooling   Ingress protection rating IP54 IP20   Communication Fast Ethernet , RS485, dry contact	Weight	23	74	345	400	1500	1500	kg
Relative humidity range 0% ~ 95%   Max. operation altitude <sup>2</sup> 4000 m   Cooling Natural convection Smart air cooling   Ingress protection rating IP54 IP20   Communication Fast Ethernet , RS485, dry contact	Storage temperature range	-40 ~ 70						°C
Max. operation altitude 2 4000 m   Cooling Natural convection Smart air cooling   Ingress protection rating IP54 IP20   Communication Fast Ethernet , RS485, dry contact IP20	Operating temperature range <sup>2</sup>	-30 ~ 55						°C
Cooling Natural convection Smart air cooling   Ingress protection rating IP54 IP20   Communication Fast Ethernet , RS485, dry contact	Relative humidity range	0% ~ 95%						
Ingress protection rating IP54 IP20   Communication Fast Ethernet , RS485, dry contact	Max. operation altitude <sup>2</sup>	4000						m
Communication Fast Ethernet , RS485, dry contact	Cooling	Natural convection Smart air cooling						
	Ingress protection rating	IP54 IP20						
Installation method Wall-mounted Ground-mounted	Communication		Fast Ethernet , RS485, dry contact					
	Installation method	Wall-m	nounted		Ground-	mounted		

 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. Please consult Sigenergy for detailed power derating information and customized requirements.

## Preliminary