

## 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           Grid connection type         Three phase           Nominal AC voltage         380 - 400           Nominal AC power         90         120         182.4         274         456         912         1,824           Nominal AC power         60         120         180         300         600         1,200           Nominal AC frequency         50 / 60         60         120         180         300         600         1,200           AC Output to Backup Port           Nominal AC voltage         380 - 400         Nominal AC outrent         91.2         182.4         274         456         912         1,824           Nominal AC power         60         120         180         300         600         1,200           Nominal AC frequency         50 / 60         60         120         180         300         600         1,200           In Port Connection           Number of connection ports         2         6         9         12         30         50           Nominal AC voltage         380 - 400         380 - 400         45.8         45.8         45.8         45.8         45.8         45.8	Units	C1200	C600	C300-12	C180-9	C120-6	C60-2	Sigen Gateway
Nominal AC voltage								Grid Connection
Nominal AC current   91.2   182.4   274   456   912   1,824   1,000		Three phase						Grid connection type
Nominal AC power         60         120         180         300         600         1,200           Nominal AC frequency         50 / 60         120         150 / 60         120         150 / 60         120         150 / 60         120         150 / 60         120         180 - 400         180	V			~ 400	380			Nominal AC voltage
Nominal AC frequency   S0 / 60	А	1,824	912	456	274	182.4	91.2	Nominal AC current
Disruption time of backup switch   0	kW	1,200	600			120	60	Nominal AC power
Nominal AC voltage	Hz	50 / 60						
Nominal AC voltage         380 ~ 400           Nominal AC current         91.2         182.4         274         456         912         1,824           Nominal AC power         60         120         180         300         600         1,200           Nominal AC frequency         50 / 60         60         1,200         180         300         600         1,200           Inverter Connection           Number of connection ports         2         6         9         12         30         50           Nominal AC voltage         380 ~ 400         380 ~ 400         45.6         50 <td< td=""><td>ms</td><td></td><td></td><td>) </td><td>(</td><td></td><td></td><td>Disruption time of backup switch <sup>1</sup></td></td<>	ms			) 	(			Disruption time of backup switch <sup>1</sup>
Nominal AC current         91.2         182.4         274         456         912         1,824           Nominal AC power         60         120         180         300         600         1,200           Nominal AC frequency         50 / 60								AC Output to Backup Port
Nominal AC power         60         120         180         300         600         1,200           Nominal AC frequency         50 / 60         10         1,200	V			~ 400	380			Nominal AC voltage
Nominal AC frequency	А	1,824	912	456	274	182.4	91.2	Nominal AC current
Overvoltage category         III           Inverter Connection           Number of connection ports         2         6         9         12         30         50           Nominal AC voltage         380 ~ 400           Max. AC input current         45.6           Smart Port Connection           Generator output voltage         380 ~ 400           Nominal AC current         91.2         182.4         274         456         912         1,824           Nominal AC power         60              120              180              300              600              1,200           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           Weight         35         74         350         400         1,100         1,300           Storage temperature range         -40 - 70         -40 - 70         -40 - 70         -30 - 55         -80 - 25%         0% - 95%         0% - 95%         0% - 95%	kW	1,200	600			120	60	Nominal AC power
Inverter Connection	Hz		50 / 60				Nominal AC frequency	
Number of connection ports         2         6         9         12         30         50           Nominal AC voltage         380 ~ 400         Max. AC input current         45.6           Smart Port Connection           Generator output voltage         380 ~ 400           Nominal AC current         91.2         182.4         274         456         912         1,824           Nominal AC power         60         120         180         300         600         1,200           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           Weight         35         74         350         400         1,100         1,300           Storage temperature range         -40 ~ 70           Operating temperature range         -30 ~ 55           Relative humidity range         0% ~ 100%         0% ~ 95%         0% ~ 95%				II	I			Overvoltage category
Nominal AC voltage         380 ~ 400           Max. AC input current         45.6           Smart Port Connection           Generator output voltage         380 ~ 400           Nominal AC current         91.2         182.4         274         456         912         1,824           Nominal AC power         60         120         180         300         600         1,200           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           Weight         35         74         350         400         1,100         1,300           Storage temperature range         -40 ~ 70           Operating temperature range 2         -30 ~ 55           Relative humidity range         0% ~ 100%         0% ~ 95%         0% ~ 95%								Inverter Connection
Max. AC input current       45.6         Smart Port Connection         Generator output voltage       380 ~ 400         Nominal AC current       91.2       182.4       274       456       912       1,824         Nominal AC power       60       120       180       300       600       1,200         General Data         Dimensions (W / H / D)       510 / 795 / 173       850 / 1,152 / 305       800 / 2,300 / 830       1,800 / 2,300 / 1,270         Weight       35       74       350       400       1,100       1,300         Storage temperature range       -40 ~ 70         Operating temperature range 2       -30 ~ 55         Relative humidity range       0% ~ 100%       0% ~ 95%       0% ~ 95%		50	30	12	9	6	2	Number of connection ports
Smart Port Connection           Generator output voltage         380 ~ 400           Nominal AC current         91.2         182.4         274         456         912         1,824           Nominal AC power         60         120         180         300         600         1,200           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           Weight         35         74         350         400         1,100         1,300           Storage temperature range         -40 ~ 70           Operating temperature range 2         -30 ~ 55           Relative humidity range         0% ~ 100%         0% ~ 95%         0% ~ 95%	V			~ 400	380			Nominal AC voltage
Generator output voltage         Nominal AC current       91.2       182.4       274       456       912       1,824         Nominal AC power       60       120       180       300       600       1,200         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         Weight       35       74       350       400       1,100       1,300         Storage temperature range       -40 ~ 70         Operating temperature range       -30 ~ 55         Relative humidity range       0% ~ 100%       0% ~ 95%       0% ~ 95%	А			5.6	45			Max. AC input current
Nominal AC current         91.2         182.4         274         456         912         1,824           Nominal AC power         60         120         180         300         600         1,200           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           Weight         35         74         350         400         1,100         1,300           Storage temperature range         -40 ~ 70           Operating temperature range 2         -30 ~ 55           Relative humidity range         0% ~ 100%         0% ~ 95%         0% ~ 95%								Smart Port Connection
Nominal AC power         60         120         180         300         600         1,200           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           Weight         35         74         350         400         1,100         1,300           Storage temperature range         -40 ~ 70           Operating temperature range 2         -30 ~ 55           Relative humidity range         0% ~ 100%         0% ~ 95%         0% ~ 95%	V			380 ~ 400				Generator output voltage
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           Weight         35         74         350         400         1,100         1,300           Storage temperature range         -40 ~ 70           Operating temperature range 2         -30 ~ 55           Relative humidity range         0% ~ 100%         0% ~ 95%         0% ~ 95%	А	1,824	912	456	274	182.4	91.2	Nominal AC current
General Data       Dimensions (W / H / D)     510 / 795 / 173     850 / 1,152 / 305     800 / 2,300 / 830     1,800 / 2,300 / 1,270       Weight     35     74     350     400     1,100     1,300       Storage temperature range     -40 ~ 70       Operating temperature range 2     -30 ~ 55       Relative humidity range     0% ~ 100%     0% ~ 95%     0% ~ 95%	kW	1,200	600	300	180	120	60	Nominal AC power
Dimensions (W / H / D)         510 / 795 / 173         850 / 1,152 / 305         800 / 2,300 / 830         1,800 / 2,300 / 1,270           Weight         35         74         350         400         1,100         1,300           Storage temperature range         -40 ~ 70           Operating temperature range 2         -30 ~ 55           Relative humidity range         0% ~ 100%         0% ~ 95%         0% ~ 95%				orted	Supp			Generator 2-wire start
Weight         35         74         350         400         1,100         1,300           Storage temperature range         -40 ~ 70           Operating temperature range 2         -30 ~ 55           Relative humidity range         0% ~ 100%         0% ~ 95%         0% ~ 95%								General Data
Storage temperature range -40 ~ 70  Operating temperature range 2 -30 ~ 55  Relative humidity range 0% ~ 100% 0% ~ 95% 0% ~ 95%	mm	00 / 1,270	1,800 / 2,3	800 / 830	800 / 2,3	850 / 1,152 / 305	510 / 795 / 173	Dimensions (W / H / D)
Operating temperature range $^2$ $-30 \sim 55$ Relative humidity range $0\% \sim 100\%$ $0\% \sim 95\%$ $0\% \sim 95\%$	kg	1,300	1,100	400	350	74	35	Weight
Relative humidity range         0% ~ 100%         0% ~ 95%         0% ~ 95%	°C			~ 70	-40			Storage temperature range
	°C			~ 55	-30			Operating temperature range <sup>2</sup>
Max. operation altitude <sup>2</sup> 4,000		95%	0% ~ 95%		0% ~ 95%		0% ~	Relative humidity range
	m			000	4,0			Max. operation altitude <sup>2</sup>
Cooling Natural convection Natural convection Smart air cooling		cooling	Smart air cooling		Natural convection		Natural c	Cooling
Ingress protection rating IP54 IP20 IP20				IP20		IP54		Ingress protection rating
Communication Fast Ethernet, RS485, dry contact				485, dry contact	Fast Ethernet, RS			
Installation method Wall-mounted Ground-mounted Ground-mounted		nounted	Ground-mounted		Ground-mounted		Wall-m	Installation method

<sup>1.</sup> 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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<sup>2.</sup> Please consult Sigenergy for detailed power derating information and customized requirements.