



**Sigenergy** focuses on developing cutting-edge home and business energy solutions, with products ranging from energy storage systems to solar inverters and EV chargers. Our world-class R&D team of hundreds of top industry experts shares the vision of making the world greener via continuous innovation. With global sales and services, we aim to become our customers' most trusted partner on their journey to a more sustainable future.

[www.sigenergy.com](http://www.sigenergy.com)

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# SIGENERGY

## Home Energy Solution

Let the world enjoy green energy



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# ABOUT SIGENERGY

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## VISION Enjoy Green Energy

**MISSION**  
Be a distributed energy pioneer.  
Build intelligent energy solutions with superior safety,  
ultra simplicity, and outstanding performance.

# SIGEN

**S**afe **I**ntelligent **G**reen **E**fficient **N**ew



# SIGENERGY HOME ENERGY SOLUTION

Combining solar, storage and EV charging, Sigenenergy offers an all-in-one Home Energy Solution that helps you lower utility bill and reliance on the grid. Simple to install, easy to use, smart & safe all around, our system is versatile and scalable to meet every need.

Let numbers talk  
Sigenenergy is raising industry standards

**15 mins**

stackable installation

**5 layers**

battery protection

**280 Ah**

long cycle-life battery cell

**0 ms**

load-side disruption

**5 mins**

fast commissioning

**IP66**

SigenStor protection rating

**25 kW**

fast EV charging at home

**1-click**

full system diagnosis



Simple



Versatile

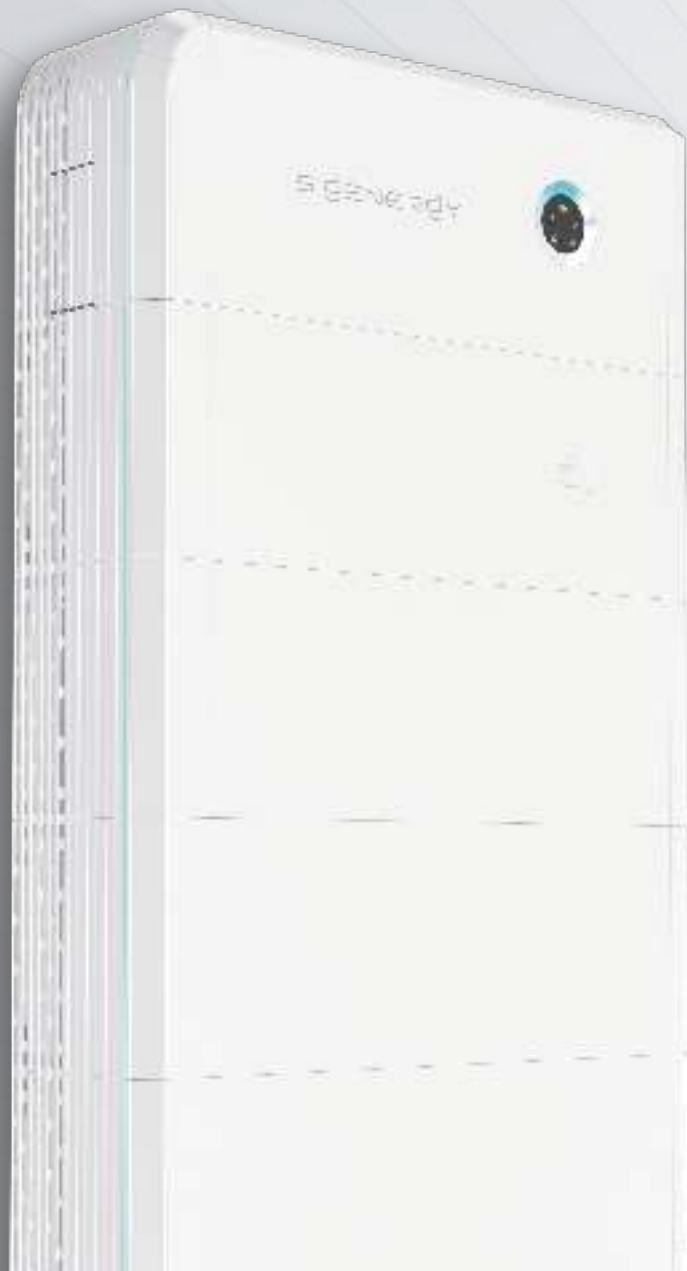


Robust



Intelligent





► **Sigen Energy Controller**  
for solar + energy storage system

► **Sigen EV DC Charging Module**  
Ready for V2X

► **Sigen Battery**

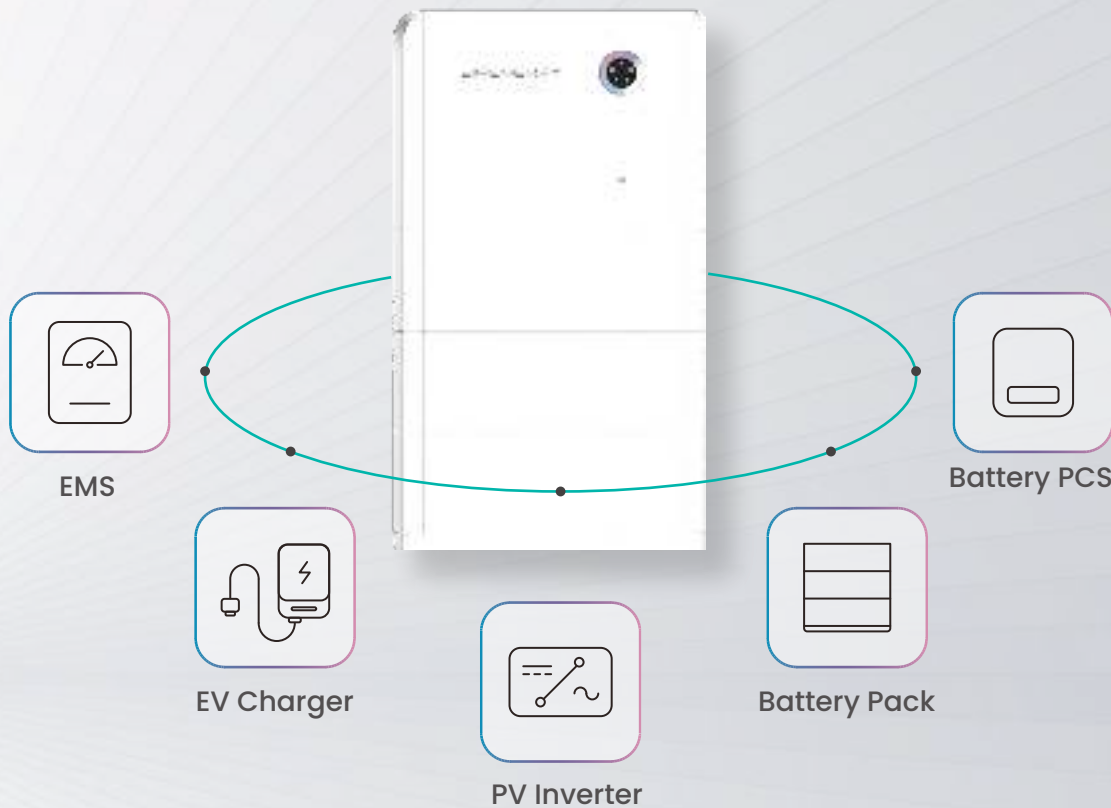
**8.0** **5.0**  
Flexible mixed use

**1 – 6**  
batteries stackable for each stack

**5 kWh – 48 kWh**  
energy capacity range for each stack

**Multiple**  
systems supported in parallel connection

## 5-in-One, highly integrated design



Sigenenergy is leading a new way of storing, transferring, and consuming home energy. We provide a genuine all-in-one solar energy storage system, SigenStor. Its unique 5-in-One modular design integrates Solar Inverter, EV DC Charger, Battery PCS, Battery Pack, and EMS into one intelligent home energy system. Simple, robust and versatile, it will be a great addition to your home.

## Start small, grow on demand

|                            |   |   |   |   |   |   |
|----------------------------|---|---|---|---|---|---|
|                            |  |  |  |  |  |  |
| Controller                 | x 1   | x 1   | x 1   | x 1   | x 1   | x 1   |
| Battery                    | x 1   | x 2   | x 3   | x 4   | x 5   | x 6   |
| Max. Total Energy Capacity | 8 kWh   | 16 kWh  | 24 kWh  | 32 kWh  | 40 kWh  | 48 kWh  |





# Sigen Energy Controller

**3.0 – 12.0 kW** Single Phase

**5.0 – 30.0 kW** Three Phase

- EMS inside for precise control
- On & off-grid compatibility
- Up to 4 MPP. trackers
- DC/AC ratio up to 2 (single phase)
- Multi-source black start
- IP66 system protection rating

## Sigen Energy Controller 3.0–12.0 kW Single Phase <sup>1</sup>

| SigenStor EC                        | 3.0 SP   | 3.6 SP | 4.0 SP | 4.6 SP | 5.0 SP | 6.0 SP | 8.0 SP | 10.0 SP | 12.0 SP | Units |
|-------------------------------------|----------|--------|--------|--------|--------|--------|--------|---------|---------|-------|
| DC Input (from PV)                  |          |        |        |        |        |        |        |         |         |       |
| Max. PV power                       | 6000     | 7360   | 8000   | 9200   | 10000  | 12000  | 16000  | 20000   | 24000   | W     |
| Max. DC input voltage               | 600      |        |        |        |        |        |        |         |         | V     |
| Nominal DC input voltage            | 350      |        |        |        |        |        |        |         |         | V     |
| Start-up voltage                    | 100      |        |        |        |        |        |        |         |         | V     |
| MPPT voltage range                  | 50 ~ 550 |        |        |        |        |        |        |         |         | V     |
| Number of MPP. trackers             | 2        |        |        |        |        |        | 3      | 4       | 4       |       |
| Number of PV strings per MPPT       | 1        |        |        |        |        |        |        |         |         |       |
| Max. input current per MPPT         | 16       |        |        |        |        |        |        |         |         | A     |
| Max. short-circuit current per MPPT | 20       |        |        |        |        |        |        |         |         | A     |

### AC Output (on-grid)

|                                   |                           |      |      |      |      |      |           |       |       |    |
|-----------------------------------|---------------------------|------|------|------|------|------|-----------|-------|-------|----|
| Nominal output power              | 3000                      | 3680 | 4000 | 4600 | 5000 | 6000 | 8000      | 10000 | 12000 | W  |
| Max. output apparent power        | 3300                      | 3680 | 4400 | 5000 | 5500 | 6600 | 8800      | 11000 | 12000 | VA |
| Nominal output current            | 13.6                      | 16.0 | 18.2 | 20.9 | 22.7 | 27.3 | 36.4      | 45.5  | 54.6  | A  |
| Max. output current               | 15.0                      | 16.0 | 20.0 | 22.7 | 25.0 | 30.0 | 40.0      | 50.0  | 54.6  | A  |
| Nominal output voltage            | 220 / 230 / 240           |      |      |      |      |      | 220 / 230 |       |       | V  |
| Nominal grid frequency            | 50 / 60                   |      |      |      |      |      |           |       |       | Hz |
| Power factor                      | 0.8 leading ~ 0.8 lagging |      |      |      |      |      |           |       |       |    |
| Total current harmonic distortion | THDi < 2%                 |      |      |      |      |      |           |       |       |    |

### Efficiency

|                     |       |       |       |       |       |       |       |       |       |  |
|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| Max. efficiency     | 98.0% | 98.0% | 98.0% | 98.0% | 98.0% | 98.0% | 97.6% | 97.6% | 97.6% |  |
| European efficiency | 97.0% | 97.1% | 97.2% | 97.3% | 97.4% | 97.4% | 97.0% | 97.0% | 97.0% |  |

### AC Output (backup)

|   |                           |      |      |      |      |      |           |       |       |    |
|---|---------------------------|------|------|------|------|------|-----------|-------|-------|----|
| Peak output power (10 seconds)                | 4500                      | 5520 | 6000 | 6900 | 7500 | 9000 | 12000     | 15000 | 15000 | W  |
| Nominal output voltage                        | 220 / 230 / 240           |      |      |      |      |      | 220 / 230 |       |       | V  |
| Nominal output frequency                      | 50 / 60                   |      |      |      |      |      |           |       |       | Hz |
| Power factor                                  | 0.8 leading ~ 0.8 lagging |      |      |      |      |      |           |       |       |    |
| Total voltage harmonic distortion             | THDv < 2%                 |      |      |      |      |      |           |       |       |    |
| Disruption time of backup switch <sup>2</sup> | 0                         |      |      |      |      |      |           |       |       | ms |

### Battery Connection

|                                  |                      |  |  |  |  |  |  |  |  |     |
|----------------------------------|----------------------|--|--|--|--|--|--|--|--|-----|
| Battery module models            | SigenStor BAT series |  |  |  |  |  |  |  |  |     |
| Number of modules per controller | 1 ~ 6                |  |  |  |  |  |  |  |  | pcs |
| Battery module voltage range     | 300 ~ 600            |  |  |  |  |  |  |  |  | V   |

### Protection

|                           |   |
|---------------------------|---|
| Safety protection feature | DC reverse polarity protection, Insulation monitoring, Residual current monitoring, Arc fault circuit interrupter <sup>3</sup> , AC overcurrent/overvoltage/short-circuit protection. Type II DC/AC surge protection, Anti-islanding protection |
|---------------------------|---|

### General Data

|                                  |   |                   |    |
|----------------------------------|---|-------------------|----|
| Dimensions (W / H / D)           | 700 / 300 / 245   | 700 / 300 / 260   | mm |
| Weight                           | 18  | 36                | kg |
| Storage temperature range        | -40 ~ 70  |                   | °C |
| Operating temperature range      | -30 ~ 60  |                   | °C |
| Relative humidity range          | 0% ~ 95%  |                   |    |
| Max. operating altitude          | 4000  |                   | m  |
| Cooling                          | Natural convection                                      | Smart air cooling |    |
| System ingress protection rating | IP66  |                   |    |
| Communication                    | WLAN / Fast Ethernet / RS485 / Sigen CommMod (4G/3G/2G) |                   |    |

### Standard Compliance

|                       |  |  |  |  |  |  |  |  |  |  |
|-----------------------|--|--|--|--|--|--|--|--|--|--|
| Standard <sup>4</sup> | IEC/EN 62109-1, IEC/EN 62109-2, IEC/EN 61000-6-1, IEC/EN 61000-6-2 |  |  |  |  |  |  |  |  |  |
|-----------------------|--|--|--|--|--|--|--|--|--|--|

- Sigen Energy Controller 8.0–12.0 kW Single Phase is only available in specific regions. Please contact Sigenergy or local distributors for details.
- 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 home loads.
- This is an optional feature only supported in certain models, please contact Sigenergy for more information.
- For all standards refer to the certificates category on the Sigenergy website.

## Sigen Energy Controller 5.0–30.0 kW Three Phase <sup>1</sup>

| SigenStor EC                        | 5.0 TP     | 6.0 TP | 8.0 TP | 10.0 TP | 12.0 TP | 15.0 TP | 17.0 TP | 20.0 TP | 25.0 TP | 30.0 TP | Units |
|-------------------------------------|------------|--------|--------|---------|---------|---------|---------|---------|---------|---------|-------|
| DC Input (from PV)                  |            |        |        |         |         |         |         |         |         |         |       |
| Max. PV power                       | 8000       | 9600   | 12800  | 16000   | 19200   | 24000   | 27200   | 32000   | 40000   | 48000   | W     |
| Max. DC input voltage               | 1100       |        |        |         |         |         |         |         |         |         | V     |
| Nominal DC input voltage            | 600        |        |        |         |         |         |         |         |         |         | V     |
| Start-up voltage                    | 180        |        |        |         |         |         |         |         |         |         | V     |
| MPPT voltage range                  | 160 ~ 1000 |        |        |         |         |         |         |         |         |         | V     |
| Number of MPP. trackers             | 2          |        |        | 3       |         |         | 4       |         |         |         |       |
| Number of PV strings per MPPT       | 1          |        |        |         |         |         |         |         |         |         |       |
| Max. input current per MPPT         | 16         |        |        |         |         |         |         |         |         |         | A     |
| Max. short-circuit current per MPPT | 20         |        |        |         |         |         |         |         |         |         | A     |

### AC Output (on-grid)

|                                   |                           |      |      |       |       |       |       |       |       |       |    |
|-----------------------------------|---------------------------|------|------|-------|-------|-------|-------|-------|-------|-------|----|
| Nominal output power              | 5000                      | 6000 | 8000 | 10000 | 12000 | 15000 | 17000 | 20000 | 25000 | 30000 | W  |
| Max. output apparent power        | 5500                      | 6600 | 8800 | 11000 | 13200 | 16500 | 18700 | 22000 | 27500 | 33000 | VA |
| Nominal output current            | 7.6                       | 9.1  | 12.2 | 15.2  | 18.2  | 22.8  | 25.8  | 30.4  | 38.0  | 45.5  | A  |
| Max. output current               | 8.4                       | 10.0 | 13.4 | 16.7  | 20.1  | 25.1  | 28.4  | 33.4  | 41.8  | 50.0  | A  |
| Nominal output voltage            | 380 / 400, 3W+N+PE        |      |      |       |       |       |       |       |       |       | V  |
| Nominal grid frequency            | 50 / 60                   |      |      |       |       |       |       |       |       |       | Hz |
| Power factor                      | 0.8 leading ~ 0.8 lagging |      |      |       |       |       |       |       |       |       |    |
| Total current harmonic distortion | THDi < 2%                 |      |      |       |       |       |       |       |       |       |    |

### Efficiency

|                     |       |       |       |       |       |       |       |       |       |       |  |
|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| Max. efficiency     | 98.1% | 98.2% | 98.3% | 98.3% | 98.3% | 98.3% | 98.3% | 98.3% | 98.3% | 98.4% |  |
| European efficiency | 96.1% | 96.6% | 97.1% | 97.5% | 97.7% | 97.9% | 97.9% | 97.9% | 98.0% | 98.0% |  |

### AC Output (backup)

|   |                           |      |       |       |       |       |       |       |       |       |    |
|---|---------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|----|
| Peak output power (10 seconds)                | 7500                      | 9000 | 12000 | 15000 | 18000 | 22500 | 25500 | 30000 | 30000 | 36000 | W  |
| Nominal output voltage                        | 380 / 400, 3W+N+PE        |      |       |       |       |       |       |       |       |       | V  |
| Nominal output frequency                      | 50 / 60                   |      |       |       |       |       |       |       |       |       | Hz |
| Power factor                                  | 0.8 leading ~ 0.8 lagging |      |       |       |       |       |       |       |       |       |    |
| Total voltage harmonic distortion             | THDv < 2%                 |      |       |       |       |       |       |       |       |       |    |
| Disruption time of backup switch <sup>2</sup> | 0                         |      |       |       |       |       |       |       |       |       | ms |

### Battery Connection

|                                  |                      |  |  |  |  |  |  |  |  |  |     |
|----------------------------------|----------------------|--|--|--|--|--|--|--|--|--|-----|
| Battery module models            | SigenStor BAT series |  |  |  |  |  |  |  |  |  |     |
| Number of modules per controller | 1 ~ 6                |  |  |  |  |  |  |  |  |  | pcs |
| Battery module voltage range     | 600 ~ 900            |  |  |  |  |  |  |  |  |  | V   |

### Protection

|                           |   |
|---------------------------|---|
| Safety protection feature | DC reverse polarity protection, Insulation monitoring, Residual current monitoring, Arc fault circuit interrupter <sup>3</sup> , AC overcurrent/overvoltage/short-circuit protection. Type II DC/AC surge protection, Anti-islanding protection |
|---------------------------|---|

### General Data

|                                  |   |  |  |  |  |  |  |  |  |  |    |
|----------------------------------|---|--|--|--|--|--|--|--|--|--|----|
| Dimensions (W / H / D)           | 700 / 300 / 260   |  |  |  |  |  |  |  |  |  |    |
| Weight                           | 36  |  |  |  |  |  |  |  |  |  | kg |
| Storage temperature range        | -40 ~ 70  |  |  |  |  |  |  |  |  |  | °C |
| Operating temperature range      | -30 ~ 60  |  |  |  |  |  |  |  |  |  | °C |
| Relative humidity range          | 0% ~ 95%  |  |  |  |  |  |  |  |  |  |    |
| Max. operating altitude          | 4000  |  |  |  |  |  |  |  |  |  | m  |
| Cooling                          | Smart air cooling                                       |  |  |  |  |  |  |  |  |  |    |
| System ingress protection rating | IP66  |  |  |  |  |  |  |  |  |  |    |
| Communication                    | WLAN / Fast Ethernet / RS485 / Sigen CommMod (4G/3G/2G) |  |  |  |  |  |  |  |  |  |    |

### Standard Compliance

|                       |  |  |  |  |  |  |  |  |  |  |  |
|-----------------------|--|--|--|--|--|--|--|--|--|--|--|
| Standard <sup>4</sup> | IEC/EN 62109-1, IEC/EN 62109-2, IEC/EN 61000-6-1, IEC/EN 61000-6-2 |  |  |  |  |  |  |  |  |  |  |
|-----------------------|--|--|--|--|--|--|--|--|--|--|--|

- Sigen Energy Controller 30.0 kW Three Phase is only available in specific regions. Please contact Sigenergy or local distributors for details.
- 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 home loads.
- This is an optional feature only supported in certain models, please contact Sigenergy for more information.
- For all standards refer to the certificates category on the Sigenergy website.





# Sigen Energy Controller

5.0 – 12.0 kW Three Phase Low Voltage

- Compatible with delta grid
- IP66 system protection rating
- EMS inside for precise control
- Up to 4 MPP. trackers

## Sigen Energy Controller 5.0-12.0 kW Three Phase Low Voltage <sup>1</sup>

| SigenStor EC                        | 5.0 TPLV | 6.0 TPLV  | 8.0 TPLV                  | 10.0 TPLV | 12.0 TPLV | Units |
|-------------------------------------|----------|---|---------------------------|-----------|-----------|-------|
| DC Input (from PV)                  |          |   |                           |           |           |       |
| Max. PV power                       | 8000     | 9600  | 12800                     | 16000     | 19200     | W     |
| Max. DC input voltage               |          |   | 600                       |           |           | V     |
| Nominal DC input voltage            |          |   | 360                       |           |           | V     |
| Start-up voltage                    |          |   | 100                       |           |           | V     |
| MPPT voltage range                  |          |   | 50 ~ 550                  |           |           | V     |
| Number of MPP. trackers             | 2        | 2   | 3                         | 3         | 4         |       |
| Number of PV strings per MPPT       |          |   | 1                         |           |           |       |
| Max. input current per MPPT         |          |   | 16                        |           |           | A     |
| Max. short-circuit current per MPPT |          |   | 20                        |           |           | A     |
| AC Output (on-grid)                 |          |   |                           |           |           |       |
| Nominal output power                | 5000     | 6000  | 8000                      | 10000     | 12000     | W     |
| Max. output apparent power          | 5500     | 6600  | 8800                      | 11000     | 13200     | VA    |
| Nominal output current              | 13.2     | 15.8  | 21.0                      | 26.2      | 31.5      | A     |
| Max. output current                 | 14.5     | 17.4  | 23.1                      | 28.9      | 34.7      | A     |
| Nominal output voltage              |          |   | 220 / 230                 |           |           | V     |
| Nominal grid frequency              |          |   | 50 / 60                   |           |           | Hz    |
| Power factor                        |          |   | 0.8 leading ~ 0.8 lagging |           |           |       |
| Total current harmonic distortion   |          |   | THDi < 2%                 |           |           |       |
| Efficiency                          |          |   |                           |           |           |       |
| Max. efficiency                     |          |   | 98%                       |           |           |       |
| European efficiency                 | 97.3%    | 97.5%   | 97.7%                     | 97.8%     | 97.8%     |       |
| Battery Connection                  |          |   |                           |           |           |       |
| Battery module models               |          |   | SigenStor BAT series      |           |           |       |
| Number of modules per controller    |          |   | 1 ~ 6                     |           |           | pcs   |
| Battery module voltage range        |          |   | 300 ~ 600                 |           |           | V     |
| Protection                          |          |   |                           |           |           |       |
| Safety protection feature           |          | DC reverse polarity protection, Insulation monitoring, Residual current monitoring, Arc fault circuit interrupter <sup>2</sup> , AC overcurrent/overvoltage/short-circuit protection, Type II DC/AC surge protection, Anti-islanding protection |                           |           |           |       |
| General Data                        |          |   |                           |           |           |       |
| Dimensions (W / H / D)              |          |   | 700 / 300 / 260           |           |           | mm    |
| Weight                              |          |   | 36                        |           |           | kg    |
| Storage temperature range           |          |   | -40 ~ 70                  |           |           | °C    |
| Operating temperature range         |          |   | -30 ~ 60                  |           |           | °C    |
| Relative humidity range             |          |   | 0% ~ 95%                  |           |           |       |
| Max. operating altitude             |          |   | 4000                      |           |           | m     |
| Cooling                             |          |   | Smart air cooling         |           |           |       |
| System ingress protection rating    |          |   | IP66                      |           |           |       |
| Communication                       |          | WLAN / Fast Ethernet / RS485 / Sigen CommMod (4G/3G/2G)   |                           |           |           |       |
| Standard Compliance                 |          |   |                           |           |           |       |
| Standard <sup>3</sup>               |          | IEC/EN 62109-1, IEC/EN 62109-2, IEC/EN 61000-6-1, IEC/EN 61000-6-2  |                           |           |           |       |

1. Sigen Energy Controller Three Phase Low Voltage is only available in specific regions. Please contact Sigenergy or local distributors for details.  
2. This is an optional feature only supported in certain models, please contact Sigenergy for more information.  
3. For all standards refer to the certificates category on the Sigenergy website.



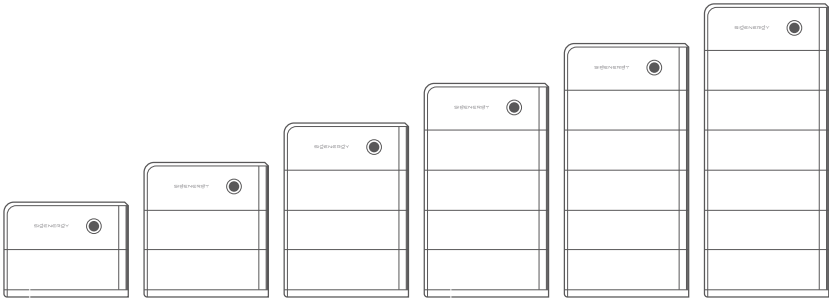


# Sigen Battery

- Large cell capacity, low voltage & durable
- Multi-layer full battery safety protection
- Visible battery status on mySigen App
- Quick connectors for fast installation
- Parallel connections for flexible battery mix

## Sigen Battery 5.0 / 8.0

| SigenStor BAT                                       | 5.0   | 8.0  | Units |
|---|---|------|-------|
| Performance Specification                           |   |      |       |
| Battery type  | LiFePO4   |      |       |
| Cell capacity                                       | 280   |      | Ah    |
| Cycle life <sup>1</sup>                             | 10000   |      |       |
| Total energy capacity                               | 5.38  | 8.06 | kWh   |
| Usable energy capacity <sup>2</sup>                 | 5.2   | 7.8  | kWh   |
| Battery modules voltage range (single phase system) | 300 ~ 600   |      | V     |
| Battery modules voltage range (three phase system)  | 600 ~ 900   |      | V     |
| Max. charge / discharge power                       | 2500  | 4000 | W     |
| Peak charge / discharge power (10 seconds)          | 3750  | 6000 | W     |
| General Data  |   |      |       |
| Weight  | 55  | 70   | kg    |
| Dimensions (W / H / D)                              | 767 / 270 / 260   |      | mm    |
| Storage temperature range                           | -25 ~ 60  |      | °C    |
| Operating temperature range                         | -20 ~ 55  |      | °C    |
| Relative humidity range                             | 5% ~ 95%  |      |       |
| Max. operating altitude                             | 4000  |      | m     |
| Cooling   | Natural convection  |      |       |
| System ingress protection rating                    | IP66  |      |       |
| Installation method                                 | Floor standing / Wall-mounted                                     |      |       |
| Standard Compliance                                 |   |      |       |
| Standard  | IEC/EN 60730-1, UN 38.3, IEC/EN 62619, IEC/EN 63056, IEC/EN 62040 |      |       |



|  |      |       |       |       |      |       |     |
|--|------|-------|-------|-------|------|-------|-----|
| Number of battery modules <sup>3</sup> | 1    | 2     | 3     | 4     | 5    | 6     | pcs |
| Total energy capacity                  | 8.06 | 16.12 | 24.18 | 32.24 | 40.3 | 48.36 | kWh |
| Max. charge / discharge power          | 4    | 8     | 12    | 16    | 20   | 24    | kW  |
| Total weight                           | 112  | 183   | 254   | 325   | 396  | 467   | kg  |
| Total height (with base)               | 640  | 910   | 1180  | 1450  | 1720 | 1990  | mm  |
| Total width (with decorative covers)   | 850  |       |       |       |      |       | mm  |
| Total depth (with decorative covers)   | 260  |       |       |       |      |       | mm  |

1. This is provided by the battery cell manufacturer. Based on cell test condition of 25±2°C, 0.5C charge and discharge rate and SOH=60%.

2. Test conditions: 100% depth of discharge, 0.2C rate charge & discharge averagely at 25°C, at the beginning of life.

3. The data in the table is based on the combination of SigenStor BAT 8.0 and SigenStor EC three-phase as an example, with a ground-mounted installation.





# Sigen EV DC Charging Module

- V2X ready technology, future proof
- Max. 25 kW bi-directional charging
- 150V ~ 1000V charging, wide EV compatibility
- Charge EV with green solar power
- Remote control on mySigen App
- IP66 system protection, maintenance free

## Sigen EV DC Charging Module 12 / 25 kW

| SigenStor EVDC <sup>1</sup>                   | 12  | 25 | Units |
|---|---|----|-------|
| DC Charging                                   |   |    |       |
| Max. charging power of charging port          | 12.5  | 25 | kW    |
| Max. discharging power of charging port       | 12.5  | 25 | kW    |
| Operation voltage range                       | 150 ~ 1000  |    | V     |
| Max. operation current                        | 40  | 80 | A     |
| Charging interface                            | CCS2  |    |       |
| Protection                                    |   |    |       |
| Short-circuit protection                      | Supported   |    |       |
| Over / Under voltage protection               | Supported   |    |       |
| Overload protection                           | Supported   |    |       |
| Over temperature protection                   | Supported   |    |       |
| Reverse polarity protection                   | Supported   |    |       |
| Welded contactor check                        | Supported   |    |       |
| General Data                                  |   |    |       |
| Dimensions (W / H / D)                        | 700 / 270 / 260   |    | mm    |
| Weight <sup>2</sup>                           | 37 (5m cable) / 39 (7.5m cable) / 41 (10m cable)                  |    | kg    |
| Storage temperature range                     | -40 ~ 70  |    | °C    |
| Operating temperature range                   | -30 ~ 60  |    | °C    |
| Relative humidity range                       | 5% ~ 95%  |    |       |
| Max. operating altitude                       | 4000  |    | m     |
| Cooling                                       | Smart air cooling   |    |       |
| System ingress protection rating              | IP66  |    |       |
| Integrated charging cable length <sup>3</sup> | 5 / 7.5 / 10  |    | m     |
| Function                                      |   |    |       |
| Authentication                                | RFID card / App / No authentication                               |    |       |
| Application                                   | Bi-directional V2X operation <sup>4</sup> , Smart load management |    |       |
| User interfaces                               | LED indicator, App, RFID  |    |       |
| Remote function                               | OTA, Remote diagnostics   |    |       |
| Standard Compliance                           |   |    |       |
| Standard <sup>5</sup>                         | EN IEC 61851-1, EN 61851-23, EN IEC 61851-21-2, ETSI EN 303 645   |    |       |

1. Sigen EV DC Charging Module needs to be used together with Sigen Energy Controller.

2. The net weight includes the CCS2 cable-assembly also, but excludes the exteriors, wall-mounting fixtures and the related attachments.

3. Integrated charging cable length refers to the length of the cable that extends from the Sigen EV DC Charging Module, not the length of the exposed cable.

4. V2X functionality is limited by the EV's capabilities. Once the relevant standards are published and tested, V2X feature can be upgraded through the OTA. For the official support of vehicle models and support timelines, please refer to future announcement made on the official website.

5. For all standards refer to the certificates category on the Sigenenergy website.





SIGENERGY



# Sigen Hybrid Inverter

**3.0 – 12.0 kW** Single Phase

**5.0 – 30.0 kW** Three Phase

- Battery ready, future proof
- DC/AC ratio up to 2 (single phase)
- Up to 4 MPP. trackers
- IP66 protection rating



## Sigen Hybrid Inverter 3.0–12.0 kW Single Phase <sup>1</sup>

| Sigen Hybrid                        | 3.0 SP   | 3.6 SP | 4.0 SP | 4.6 SP | 5.0 SP | 6.0 SP | 8.0 SP | 10.0 SP | 12.0 SP | Units |
|-------------------------------------|----------|--------|--------|--------|--------|--------|--------|---------|---------|-------|
| DC Input                            |          |        |        |        |        |        |        |         |         |       |
| Max. PV power                       | 6000     | 7360   | 8000   | 9200   | 10000  | 12000  | 16000  | 20000   | 24000   | W     |
| Max. DC input voltage               | 600      |        |        |        |        |        |        |         |         | V     |
| Nominal DC input voltage            | 350      |        |        |        |        |        |        |         |         | V     |
| Start-up voltage                    | 100      |        |        |        |        |        |        |         |         | V     |
| MPPT voltage range                  | 50 ~ 550 |        |        |        |        |        |        |         |         | V     |
| Number of MPP. trackers             | 2        |        |        |        |        |        | 3      | 4       | 4       |       |
| Number of PV strings per MPPT       | 1        |        |        |        |        |        |        |         |         |       |
| Max. input current per MPPT         | 16       |        |        |        |        |        |        |         |         | A     |
| Max. short-circuit current per MPPT | 20       |        |        |        |        |        |        |         |         | A     |

### AC Output (on-grid)

|                                   |                           |      |      |      |      |      |           |       |       |    |
|-----------------------------------|---------------------------|------|------|------|------|------|-----------|-------|-------|----|
| Nominal output power              | 3000                      | 3680 | 4000 | 4600 | 5000 | 6000 | 8000      | 10000 | 12000 | W  |
| Max. output apparent power        | 3300                      | 3680 | 4400 | 5000 | 5500 | 6600 | 8800      | 11000 | 12000 | VA |
| Nominal output current            | 13.6                      | 16.0 | 18.2 | 20.9 | 22.7 | 27.3 | 36.4      | 45.5  | 54.6  | A  |
| Max. output current               | 15.0                      | 16.0 | 20.0 | 22.7 | 25.0 | 30.0 | 40.0      | 50.0  | 54.6  | A  |
| Nominal output voltage            | 220 / 230 / 240           |      |      |      |      |      | 220 / 230 |       |       | V  |
| Nominal grid frequency            | 50 / 60                   |      |      |      |      |      |           |       |       | Hz |
| Power factor                      | 0.8 leading ~ 0.8 lagging |      |      |      |      |      |           |       |       |    |
| Total current harmonic distortion | THDi < 2%                 |      |      |      |      |      |           |       |       |    |

### Efficiency

|                     |       |       |       |       |       |       |       |       |       |  |
|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| Max. efficiency     | 98.0% | 98.0% | 98.0% | 98.0% | 98.0% | 98.0% | 97.6% | 97.6% | 97.6% |  |
| European efficiency | 97.0% | 97.1% | 97.2% | 97.3% | 97.4% | 97.4% | 97.0% | 97.0% | 97.0% |  |

### Additional Features

|                                  |                      |      |      |      |      |      |           |       |       |     |
|----------------------------------|----------------------|------|------|------|------|------|-----------|-------|-------|-----|
| Compatible battery module        | SigenStor BAT series |      |      |      |      |      |           |       |       |     |
| Number of modules per controller | 1 ~ 6                |      |      |      |      |      |           |       |       | pcs |
| Battery module voltage range     | 300 ~ 600            |      |      |      |      |      |           |       |       | V   |
| Peak output power (10 seconds)   | 4500                 | 5520 | 6000 | 6900 | 7500 | 9000 | 12000     | 15000 | 15000 | W   |
| Nominal output voltage           | 220 / 230 / 240      |      |      |      |      |      | 220 / 230 |       |       | V   |

### Protection

|                           |   |
|---------------------------|---|
| Safety protection feature | DC reverse polarity protection, Insulation monitoring, Residual current monitoring, Arc fault circuit interrupter <sup>2</sup> , AC overcurrent/overvoltage/short-circuit protection. Type II DC/AC surge protection, Anti-islanding protection |
|---------------------------|---|

### General Data

|                             |   |                   |    |
|-----------------------------|---|-------------------|----|
| Dimensions (W / H / D)      | 700 / 300 / 268   | 700 / 300 / 283   | mm |
| Weight                      | 18  | 36                | kg |
| Storage temperature range   | -40 ~ 70  |                   | °C |
| Operating temperature range | -30 ~ 60  |                   | °C |
| Relative humidity range     | 0% ~ 95%  |                   |    |
| Max. operating altitude     | 4000  |                   | m  |
| Cooling                     | Natural convection                                      | Smart air cooling |    |
| Ingress protection rating   | IP66  |                   |    |
| Installation method         | Wall-mounted  |                   |    |
| Communication               | WLAN / Fast Ethernet / RS485 / Sigen CommMod (4G/3G/2G) |                   |    |

### Standard Compliance

|                       |  |
|-----------------------|--|
| Standard <sup>3</sup> | IEC/EN 62109-1, IEC/EN 62109-2, IEC/EN 62477, IEC/EN 61000-6-1, IEC/EN 61000-6-2 |
|-----------------------|--|

1. Sigen Hybrid Inverter 8.0–12.0 kW Single Phase is only available in specific regions. Please contact Sigenergy or local distributors for details.  
2. This is an optional feature only supported in certain models, please contact Sigenergy for more information.  
3. For all standards refer to the certificates category on the Sigenergy website.

## Sigen Hybrid Inverter 5.0–30.0 kW Three Phase <sup>1</sup>

| Sigen Hybrid                        | 5.0 TP     | 6.0 TP | 8.0 TP | 10.0 TP | 12.0 TP | 15.0 TP | 17.0 TP | 20.0 TP | 25.0 TP | 30.0 TP | Units |
|-------------------------------------|------------|--------|--------|---------|---------|---------|---------|---------|---------|---------|-------|
| DC Input                            |            |        |        |         |         |         |         |         |         |         |       |
| Max. PV power                       | 8000       | 9600   | 12800  | 16000   | 19200   | 24000   | 27200   | 32000   | 40000   | 48000   | W     |
| Max. DC input voltage               | 1100       |        |        |         |         |         |         |         |         |         | V     |
| Nominal DC input voltage            | 600        |        |        |         |         |         |         |         |         |         | V     |
| Start-up voltage                    | 180        |        |        |         |         |         |         |         |         |         | V     |
| MPPT voltage range                  | 160 ~ 1000 |        |        |         |         |         |         |         |         |         | V     |
| Number of MPP. trackers             | 2          |        |        | 3       |         |         | 4       |         |         |         |       |
| Number of PV strings per MPPT       | 1          |        |        |         |         |         |         |         |         |         |       |
| Max. input current per MPPT         | 16         |        |        |         |         |         |         |         |         |         | A     |
| Max. short-circuit current per MPPT | 20         |        |        |         |         |         |         |         |         |         | A     |

### AC Output (on-grid)

|                                   |                           |      |      |       |       |       |       |       |       |       |    |
|-----------------------------------|---------------------------|------|------|-------|-------|-------|-------|-------|-------|-------|----|
| Nominal output power              | 5000                      | 6000 | 8000 | 10000 | 12000 | 15000 | 17000 | 20000 | 25000 | 30000 | W  |
| Max. output apparent power        | 5500                      | 6600 | 8800 | 11000 | 13200 | 16500 | 18700 | 22000 | 27500 | 33000 | VA |
| Nominal output current            | 7.6                       | 9.1  | 12.2 | 15.2  | 18.2  | 22.8  | 25.8  | 30.4  | 38.0  | 45.5  | A  |
| Max. output current               | 8.4                       | 10.0 | 13.4 | 16.7  | 20.1  | 25.1  | 28.4  | 33.4  | 41.8  | 50.0  | A  |
| Nominal output voltage            | 380 / 400, 3W+N+PE        |      |      |       |       |       |       |       |       |       | V  |
| Nominal grid frequency            | 50 / 60                   |      |      |       |       |       |       |       |       |       | Hz |
| Power factor                      | 0.8 leading ~ 0.8 lagging |      |      |       |       |       |       |       |       |       |    |
| Total current harmonic distortion | THDi < 2%                 |      |      |       |       |       |       |       |       |       |    |

### Efficiency

|                     |       |       |       |       |       |       |       |       |       |       |  |
|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| Max. efficiency     | 98.1% | 98.2% | 98.3% | 98.3% | 98.3% | 98.3% | 98.3% | 98.3% | 98.3% | 98.4% |  |
| European efficiency | 96.1% | 96.6% | 97.1% | 97.5% | 97.7% | 97.9% | 97.9% | 97.9% | 98.0% | 98.0% |  |

### Additional Features

|                                  |                      |      |       |       |       |       |       |       |       |       |     |
|----------------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-----|
| Compatible battery module        | SigenStor BAT series |      |       |       |       |       |       |       |       |       |     |
| Number of modules per controller | 1 ~ 6                |      |       |       |       |       |       |       |       |       | pcs |
| Battery module voltage range     | 600 ~ 900            |      |       |       |       |       |       |       |       |       | V   |
| Peak output power (10 seconds)   | 7500                 | 9000 | 12000 | 15000 | 18000 | 22500 | 25500 | 30000 | 30000 | 36000 | W   |
| Nominal output voltage           | 380 / 400, 3W+N+PE   |      |       |       |       |       |       |       |       |       | V   |

### Protection

|                           |   |
|---------------------------|---|
| Safety protection feature | DC reverse polarity protection, Insulation monitoring, Residual current monitoring, Arc fault circuit interrupter <sup>2</sup> , AC overcurrent/overvoltage/short-circuit protection. Type II DC/AC surge protection, Anti-islanding protection |
|---------------------------|---|

### General Data

|                             |   |    |
|-----------------------------|---|----|
| Dimensions (W / H / D)      | 700 / 300 / 283   | mm |
| Weight                      | 36  | kg |
| Storage temperature range   | -40 ~ 70  | °C |
| Operating temperature range | -30 ~ 60  | °C |
| Relative humidity range     | 0% ~ 95%  |    |
| Max. operating altitude     | 4000  | m  |
| Cooling                     | Smart air cooling                                       |    |
| Ingress protection rating   | IP66  |    |
| Installation method         | Wall-mounted  |    |
| Communication               | WLAN / Fast Ethernet / RS485 / Sigen CommMod (4G/3G/2G) |    |

### Standard Compliance

|                       |  |
|-----------------------|--|
| Standard <sup>3</sup> | IEC/EN 62109-1, IEC/EN 62109-2, IEC/EN 61000-6-1, IEC/EN 61000-6-2 |
|-----------------------|--|

1. Sigen Hybrid Inverter 30.0 kW Three Phase is only available in specific regions. Please contact Sigenergy or local distributors for details.  
2. This is an optional feature only supported in certain models, please contact Sigenergy for more information.  
3. For all standards refer to the certificates category on the Sigenergy website.





# Sigen Hybrid Inverter

**2.0 – 6.0 kW** Single Phase

**3.0 – 12.0 kW** Three Phase

**NEW**

- Battery ready for future expansion
- Slimmest design, less install. requirements
- Fan-less design, powerful yet quiet
- IP66 protection rating, worry-free usage

Sigen Hybrid Inverter 2.0–6.0 kW Single Phase

NEW

Preliminary

| Sigen Hybrid                        | 2.0 SP2 | 3.0 SP2 | 3.6 SP2 | 4.0 SP2   | 4.6 SP2 | 5.0 SP2 | 6.0 SP2 | Units |
|-------------------------------------|---------|---------|---------|---|---------|---------|---------|-------|
| DC Input (from PV)                  |         |         |         |   |         |         |         |       |
| Max. PV power                       | 4000    | 6000    | 7360    | 8000  | 9200    | 10000   | 12000   | W     |
| Max. DC input voltage               |         |         |         | 600   |         |         |         | V     |
| Nominal DC input voltage            |         |         |         | 350   |         |         |         | V     |
| Start-up voltage                    |         |         |         | 100   |         |         |         | V     |
| MPPT voltage range                  |         |         |         | 50 ~ 550  |         |         |         | V     |
| Number of MPP. trackers             |         |         |         | 2   |         |         |         |       |
| Number of PV strings per MPPT       |         |         |         | 1   |         |         |         |       |
| Max. input current per MPPT         |         |         |         | 16  |         |         |         | A     |
| Max. short-circuit current per MPPT |         |         |         | 22  |         |         |         | A     |
| AC Output (on-grid)                 |         |         |         |   |         |         |         |       |
| Nominal output power                | 2000    | 3000    | 3680    | 4000  | 4600    | 5000    | 6000    | W     |
| Max. output apparent power          | 2200    | 3300    | 3680    | 4400  | 5000    | 5500    | 6600    | VA    |
| Nominal output current              | 9.1     | 13.6    | 16.0    | 18.2  | 20.9    | 22.7    | 27.3    | A     |
| Max. output current                 | 10.0    | 15.0    | 16.0    | 20.0  | 22.7    | 25.0    | 30.0    | A     |
| Nominal output voltage              |         |         |         | 220 / 230 / 240   |         |         |         | V     |
| Nominal grid frequency              |         |         |         | 50 / 60   |         |         |         | Hz    |
| Power factor                        |         |         |         | 0.8 leading ~ 0.8 lagging   |         |         |         |       |
| Total current harmonic distortion   |         |         |         | THDi < 3%   |         |         |         |       |
| Efficiency                          |         |         |         |   |         |         |         |       |
| Max. efficiency                     | 98.3%   | 98.4%   | 98.5%   | 98.5%   | 98.5%   | 98.5%   | 98.5%   |       |
| European efficiency                 | 96.8%   | 97.4%   | 97.6%   | 97.9%   | 97.9%   | 97.9%   | 97.9%   |       |
| Additional features                 |         |         |         |   |         |         |         |       |
| Battery controller models           |         |         |         | SigenStor BC  |         |         |         |       |
| Battery module models               |         |         |         | SigenStor BAT series  |         |         |         |       |
| Number of modules per controller    |         |         |         | 1 ~ 6   |         |         |         | pcs   |
| Battery module voltage range        |         |         |         | 300 ~ 600   |         |         |         | V     |
| Peak output power (10 seconds)      | 3000    | 4500    | 5520    | 6000  | 6900    | 7500    | 9000    | W     |
| Nominal output voltage              |         |         |         | 220 / 230 / 240   |         |         |         | V     |
| Protection                          |         |         |         |   |         |         |         |       |
| Safety protection feature           |         |         |         | DC reverse polarity protection, Insulation monitoring, Residual current monitoring, Arc fault circuit interrupter, AC overcurrent/overvoltage/short-circuit protection. Type II DC/AC surge protection, Anti-islanding protection |         |         |         |       |
| General Data                        |         |         |         |   |         |         |         |       |
| Dimensions (W / H / D)              |         |         |         | 365 / 460 / 99  |         |         |         | mm    |
| Weight                              |         |         |         | < 11  |         |         |         | kg    |
| Storage temperature range           |         |         |         | -40 ~ 70  |         |         |         | °C    |
| Operating temperature range         |         |         |         | -30 ~ 60  |         |         |         | °C    |
| Relative humidity range             |         |         |         | 0% ~ 95%  |         |         |         |       |
| Max. operating altitude             |         |         |         | 4000  |         |         |         | m     |
| Cooling                             |         |         |         | Natural convection  |         |         |         |       |
| System ingress protection rating    |         |         |         | IP66  |         |         |         |       |
| Communication                       |         |         |         | WLAN / Fast Ethernet / RS485 / Sigen CommMod (4G/3G/2G)   |         |         |         |       |
| Installation method                 |         |         |         | Wall-mounted  |         |         |         |       |
| Night consumption                   |         |         |         | ≤ 3   |         |         |         | W     |
| Noise                               |         |         |         | ≤ 25  |         |         |         | dB    |

1. This document reflects current technology and is subject to change without notice. Refer to the Sigenergy website for the latest information.

Sigen Hybrid Inverter 3.0–12.0 kW Three Phase

NEW

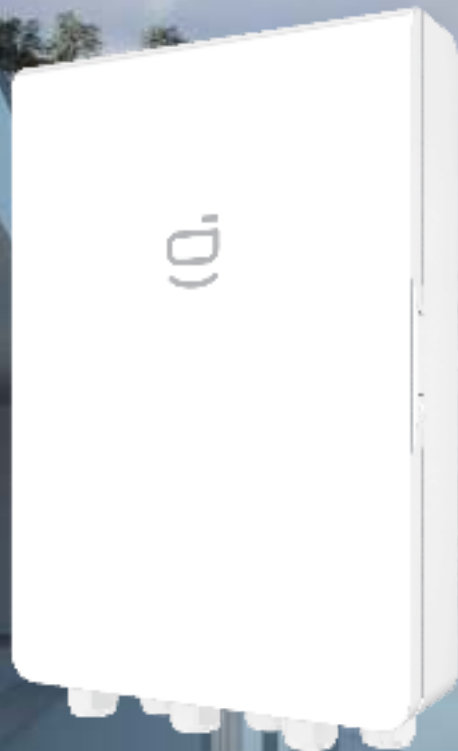
Preliminary

| Sigen Hybrid                        | 3.0 TP2 | 4.0 TP2 | 5.0 TP2                            | 6.0 TP2   | 8.0 TP2 | 10.0 TP2 | 12.0 TP2 | Units |
|-------------------------------------|---------|---------|------------------------------------|---|---------|----------|----------|-------|
| DC Input (from PV)                  |         |         |                                    |   |         |          |          |       |
| Max. PV power                       | 6000    | 8000    | 10000                              | 12000   | 16000   | 20000    | 24000    | W     |
| Max. DC input voltage               |         |         |                                    | 1100  |         |          |          | V     |
| Nominal DC input voltage            |         |         |                                    | 600   |         |          |          | V     |
| Start-up voltage                    |         |         |                                    | 180   |         |          |          | V     |
| MPPT voltage range                  |         |         |                                    | 160 ~ 1000  |         |          |          | V     |
| Number of MPP. trackers             |         |         |                                    | 2   |         |          |          |       |
| Number of PV strings per MPPT       |         |         | 1                                  |   |         | 1/2      |          |       |
| Max. input current per MPPT         |         |         | 16                                 |   |         | 16/32    | 16/32    | A     |
| Max. short-circuit current per MPPT |         |         | 22                                 |   |         | 22/44    | 22/44    | A     |
| AC Output (on-grid)                 |         |         |                                    |   |         |          |          |       |
| Nominal output power                | 3000    | 4000    | 5000                               | 6000  | 8000    | 10000    | 12000    | W     |
| Max. output apparent power          | 3300    | 4400    | 5500                               | 6600  | 8800    | 11000    | 13200    | VA    |
| Nominal output current              | 4.6     | 6.1     | 7.6                                | 9.1   | 12.2    | 15.2     | 18.2     | A     |
| Max. output current                 | 5.1     | 6.7     | 8.4                                | 10.0  | 13.4    | 16.7     | 20.1     | A     |
| Nominal output voltage              |         |         | 220/380, 230/400, 240/415, 3W+N+PE |   |         |          |          | V     |
| Nominal grid frequency              |         |         | 50 / 60                            |   |         |          |          | Hz    |
| Power factor                        |         |         | 0.8 leading ~ 0.8 lagging          |   |         |          |          |       |
| Total current harmonic distortion   |         |         | THDi < 3%                          |   |         |          |          |       |
| Efficiency                          |         |         |                                    |   |         |          |          |       |
| Max. efficiency                     | 98.0%   | 98.3%   | 98.4%                              | 98.7%   | 98.7%   | 98.7%    | 98.7%    |       |
| European efficiency                 | 97.0%   | 97.3%   | 97.5%                              | 97.7%   | 98.0%   | 98.1%    | 98.2%    |       |
| Additional features                 |         |         |                                    |   |         |          |          |       |
| Battery controller models           |         |         |                                    | SigenStor BC  |         |          |          |       |
| Battery module models               |         |         |                                    | SigenStor BAT series  |         |          |          |       |
| Number of modules per controller    |         |         |                                    | 1 ~ 6   |         |          |          | pcs   |
| Battery module voltage range        |         |         |                                    | 600 ~ 900   |         |          |          | V     |
| Peak output power (10 seconds)      | 4500    | 6000    | 7500                               | 9000  | 12000   | 15000    | 18000    | W     |
| Nominal output voltage              |         |         | 220/380, 230/400, 240/415, 3W+N+PE |   |         |          |          | V     |
| Protection                          |         |         |                                    |   |         |          |          |       |
| Safety protection feature           |         |         |                                    | DC reverse polarity protection, Insulation monitoring, Residual current monitoring, Arc fault circuit interrupter, AC overcurrent/overvoltage/short-circuit protection. Type II DC/AC surge protection, Anti-islanding protection |         |          |          |       |
| General Data                        |         |         |                                    |   |         |          |          |       |
| Dimensions (W / H / D)              |         |         |                                    | 475 / 568 / 99  |         |          |          | mm    |
| Weight                              |         |         |                                    | < 17  |         |          |          | kg    |
| Storage temperature range           |         |         |                                    | -40 ~ 70  |         |          |          | °C    |
| Operating temperature range         |         |         |                                    | -30 ~ 60  |         |          |          | °C    |
| Relative humidity range             |         |         |                                    | 0% ~ 95%  |         |          |          |       |
| Max. operating altitude             |         |         |                                    | 4000  |         |          |          | m     |
| Cooling                             |         |         |                                    | Natural convection  |         |          |          |       |
| System ingress protection rating    |         |         |                                    | IP66  |         |          |          |       |
| Communication                       |         |         |                                    | WLAN / Fast Ethernet / RS485 / Sigen CommMod (4G/3G/2G)   |         |          |          |       |
| Installation method                 |         |         |                                    | Wall-mounted  |         |          |          |       |
| Night consumption                   |         |         |                                    | ≤ 5   |         |          |          | W     |
| Noise                               |         |         |                                    | ≤ 29  |         |          |          | dB    |

1. This document reflects current technology and is subject to change without notice. Refer to the Sigenergy website for the latest information.



# Sigen Energy Gateway HomeMax



- 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 HomeMax

| Sigen Gateway                                    | HomeMax SP 12K                               | HomeMax TP      | Units |
|--|--|-----------------|-------|
| Grid Connection                                  |  |                 |       |
| 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    |
| AC Output to Backup Port                         |  |                 |       |
| 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  |                 |       |
| Inverter Connection / EV Charger Port (optional) |  |                 |       |
| 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    |
| Smart Port Connection                            |  |                 |       |
| Generator output voltage                         | 220 / 230 / 240                              | 380 / 400       | V     |
| Nominal current                                  | 63   | 76              | A     |
| Nominal AC power                                 | 13.8 / 14.5 / 15.1                           | 50 / 52.6       | kW    |
| Generator 2-wire start                           | Supported                                    |                 |       |
| General Data                                     |  |                 |       |
| 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                                     |                 | °C    |
| Relative humidity range                          | 0% ~ 95%                                     |                 |       |
| Max. operation altitude                          | 4000   |                 | m     |
| Cooling  | Natural convection                           |                 |       |
| Ingress protection rating                        | IP54   |                 |       |
| Communication                                    | Fast Ethernet, RS485, dry contact            |                 |       |
| Installation method                              | Wall mounted                                 |                 |       |

- <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.
- <sup>2</sup> For Sigenenergy 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.



# Sigen Communication Module

- IP66 protection rating, more reliable
- Plug & play, easy to use
- Support 2G / 3G / 4G communication

## Sigen Communication Module

|                                     | Sigen CommMod <sup>1</sup>   | Units |
|-------------------------------------|--|-------|
| Connection interface                | USB  |       |
| Installation type                   | Plug-and-play  |       |
| Display                             | LED indicators   |       |
| Dimensions (W / H / D)              | 52 / 112 / 33  | mm    |
| Weight                              | 90   | g     |
| Ingress protection rating           | IP66   |       |
| Power consumption (typical)         | < 4  | W     |
| Supported SIM card                  | Micro-SIM (12mm x 15mm)  |       |
| Supported standards                 | LTE-FDD B1/3/7/8/20/28A<br>LTE-TDD B38/40/41<br>WCDMA B1/8<br>GSM/EDGE B3/8                |       |
| Storage temperature range           | -40 ~ 70   | °C    |
| Operating temperature range         | -30 ~ 60   | °C    |
| Relative humidity range             | 0% ~ 95%   |       |
| Max. operating altitude             | 4000   | m     |
| Controller / Inverter compatibility | Sigen Energy Controller series<br>Sigen Hybrid Inverter series<br>Sigen PV Inverter series |       |

1. To ensure stable data transmission, the mobile signal for 2G signal ≥ 4 bars, 3G/4G signal ≥ 3 bars.  
2. This product is only available in specific regions. Please contact Sigenergy or local distributors for details.







# Sigen Power Sensor

- 1% high-accuracy power detection for precise control
- LCD real-time info display, easy to operate and check
- Integrate smoothly with Sigenergy devices, no need for setup
- Top class 100 A direct connection in power sensor with built-in CT
- Support export/import limitations and ready for AI evolving
- 100 ms data refresh rate, instantaneous data feed

## Sigen Power Sensor

| Sigen Sensor <sup>1</sup>    | SP-DH                                | SP-CT120-DH   | TP-DH         | TP-CT120-DH    | Units |
|------------------------------|--------------------------------------|---------------|---------------|----------------|-------|
| Power Supply                 |                                      |               |               |                |       |
| Grid connection type         | 1P2W                                 |               | 3P3W/3P4W     |                |       |
| AC input voltage range       | 176 ~ 276                            |               | 173 ~ 480 Vac |                |       |
| Nominal AC frequency         | 50 / 60                              |               |               |                | Hz    |
| Max. operating current       | 100                                  | -             | 100           | -              | A     |
| Measurement Accuracy         |                                      |               |               |                |       |
| Voltage accuracy             | 0.5%                                 |               |               |                |       |
| Current accuracy             | 0.5%                                 |               |               |                |       |
| Power accuracy               | 1%                                   |               |               |                |       |
| Frequency accuracy           | 0.2%                                 |               |               |                |       |
| Communication                |                                      |               |               |                |       |
| Interface                    | RS485                                |               |               |                |       |
| Baud rate                    | 9600 bps                             |               |               |                |       |
| Protocol                     | Modbus RTU                           |               |               |                |       |
| General Data                 |                                      |               |               |                |       |
| Dimensions (W / H / D)       | 36 / 100 / 63                        | 18 / 118 / 64 | 72 / 100 / 66 | 72 / 94.5 / 65 | mm    |
| Weight                       | 0.20                                 | 0.07          | 0.32          | 0.20           | kg    |
| Storage temperature range    | -40 ~ 70 °C                          |               |               |                |       |
| Operating temperature range  | -25 ~ 60 °C                          |               |               |                |       |
| Relative humidity range      | 0% ~ 90%                             |               |               |                |       |
| Ingress protection rating    | IP20                                 |               |               |                |       |
| Installation method          | DIN Rail 35 mm                       |               |               |                |       |
| CT Accessory                 |                                      |               |               |                |       |
| Number of CT                 | -                                    | 1             | -             | 3              | pcs   |
| Cable length of CT           | -                                    | 1             | -             | 1              | m     |
| Inner diameter of CT         | -                                    | 16            | -             | 16             | mm    |
| Weight of CT                 | -                                    | 0.09          | -             | 0.09           | kg    |
| Max. operating current of CT | -                                    | 120           | -             | 120            | A     |
| Standard Compliance          |                                      |               |               |                |       |
| Standard                     | EN 61010-1:2010, EN 61010-2-030:2010 |               |               |                |       |

1. For more models refer to the Sigenergy website.

# Sigen EV AC Charger



- Green power charging with Sigenergy home energy solution
- Data tracking & scheduled charging on mySigen App
- Dynamic load management to prevent overload, user-friendly charging\*
- Easy installation with less steps and top/bottom/rear entry option
- Integrated residual current failure protection reduces installation costs
- IP65 protection rating, worry-free outdoor usage with easy O&M

\* Only works with Sigenergy home energy solution or additional Sigen Power Sensor

## Sigen EV AC Charger 7 / 11 / 22 kW

| Sigen EVAC                                 | 7  | 11                               | 22                               | Units |
|--|--|----------------------------------|----------------------------------|-------|
| AC Input & Output                          |  |                                  |                                  |       |
| Nominal charging power                     | 7  | 11                               | 22                               | kW    |
| Nominal output voltage                     | 220 ~ 240<br>1W+N+PE   | 220 ~ 240 / 380 ~ 415<br>3W+N+PE | 220 ~ 240 / 380 ~ 415<br>3W+N+PE | V     |
| Output current range                       | 6 ~ 32   | 6 ~ 16                           | 6 ~ 32                           | A     |
| Nominal AC frequency                       | 50 / 60  |                                  |                                  | Hz    |
| Vehicle connection                         | Type 2 connector / Type 2 socket with shutter  |                                  |                                  |       |
| AC input cable width range                 | 2.5 ~ 6.0  |                                  |                                  | mm²   |
| Protection                                 |  |                                  |                                  |       |
| Integrated DC fault detection <sup>1</sup> | 6  |                                  |                                  | mA    |
| Integrated AC fault detection <sup>1</sup> | 30   |                                  |                                  | mA    |
| Flame retardant rating                     | UL94-5VB   |                                  |                                  |       |
| Over / Under voltage protection            | Supported  |                                  |                                  |       |
| Overload protection                        | Supported  |                                  |                                  |       |
| Over temperature protection                | Supported  |                                  |                                  |       |
| PEN protection                             | Supported  |                                  |                                  |       |
| Randomized charging delay                  | Supported  |                                  |                                  |       |
| Ground fault protection                    | Supported  |                                  |                                  |       |
| Surge protection                           | Supported  |                                  |                                  |       |
| Grounding system                           | TT, TN, IT   |                                  |                                  |       |
| User Interface & Communication             |  |                                  |                                  |       |
| Protocol                                   | RS485, Modbus RTU  |                                  |                                  |       |
| Communication                              | 4G / WLAN / Fast Ethernet  |                                  |                                  |       |
| Authentication                             | RFID card / App / Auto-charge (no authentication)  |                                  |                                  |       |
| Display                                    | LED indicator / App  |                                  |                                  |       |
| Charging mode <sup>2</sup>                 | 100% PV charging / Solar boost charging / Fast charging  |                                  |                                  |       |
| Metering                                   | External meter with RS485 / Integrated metering IC   |                                  |                                  |       |
| Dynamic load management <sup>3</sup>       | Supported  |                                  |                                  |       |
| Phase switching                            | Supported  |                                  |                                  |       |
| OCPP protocol                              | OCPP 1.6J ED 2   |                                  |                                  |       |
| General Data                               |  |                                  |                                  |       |
| Dimensions (W / H / D)                     | 234 / 384 / 126  |                                  |                                  | mm    |
| Weight (case B / case C)                   | 4.5 / 6.4  |                                  |                                  | kg    |
| Storage temperature range                  | -40 ~ 70   |                                  |                                  | °C    |
| Operating temperature range                | -30 ~ 55   |                                  |                                  | °C    |
| Relative humidity range                    | 5% ~ 95%   |                                  |                                  |       |
| Max. operating altitude                    | 4000   |                                  |                                  | m     |
| Cooling                                    | Natural convection   |                                  |                                  |       |
| Ingress protection rating                  | IP65   |                                  |                                  |       |
| Installation method                        | Wall-mounted   |                                  |                                  |       |
| Application environment                    | Outdoor / Indoor   |                                  |                                  |       |
| Standby self-consumption                   | < 3.6  |                                  |                                  | W     |
| Standard charging cable length             | 5  |                                  |                                  | m     |
| Standard Compliance                        |  |                                  |                                  |       |
| Standard <sup>4</sup>                      | EN IEC 61851-1, IEC 62955, EN IEC 61851-21-2, ETSI EN 300 330 V2.1.1, ETSI EN 301 511 V12.5.1, EN IEC 62311, EN50665, ETSI EN 300 328 V2.2.2 |                                  |                                  |       |

1. Residual direct current protective device (RDC-PD) with integrated AC pulsating DC and 6mA DC detection, evalution and mechanical switching in the Sigen EV AC Charger is tested according to IEC 62955.

2. This function needs to be used with SigenStor.

3. This function needs to be used with Sigen Power Sensor.

4. For all standards refer to the certificates category on the Sigenergy website.



# mySigen App

Intelligent energy management within touches  
For homeowners

Smarter energy life empowered by mySigen App



## Real-time monitoring

Energy data refresh every 10 seconds  
Visible energy flow & related devices  
Auto. system network display on App



## AI Mode

Provide intelligent optimization  
suggestions on system mode,  
battery capacity and energy usage



## Sigen Shield

Discover industry-leading  
battery safety features



## Fun ambient lighting

Customizable lighting language  
Add personality to your system



## Sigen AI

After-sales engineer  
Home energy analyst  
Device mgmt. assistant



## Interactive services

AI-integrated service interface  
Self-diagnosis to identify problems  
Submit service requests via the App

\*The interface may change after the mySigen App version is updated, please refer to the actual interface.



# mySigen App

Intelligent energy management within touches  
For installers

Simplify your installation process, one App does it all



Step 1

Scan to add a new system



Step 2

Fill out details



Step 3

Fast software upgrade



Step 4

Confirm preset parameters



Step 5

One-click full system check



Step 6

Confirm

\*The interface may change after the mySigen App version is updated, please refer to the actual interface.



# Leading the Way in Intelligent Manufacturing

Located in the Lin-gang New Area, Shanghai, a hub of world-class enterprises with strong innovative strengths, the 20,000 sqm manufacturing center is equipped with state-of-the-art technology and innovative manufacturing processes that allow us to produce high-quality products with exceptional efficiency. It also features the latest manufacturing execution system (MES) which streamlines our operations and enables real-time monitoring of the production process.







## Runs on Solar by Sigenergy solutions for a Sustainable Tomorrow

By adopting Sigenergy products and embracing solar energy, our factory has realized green manufacturing. With a 3,000 sqm PV plant on the rooftop, We have significantly reduced our reliance on fossil fuels and effectively cut carbon footprint during the manufacturing process. Our solar-powered production also translates into better efficiency and higher cost savings for our business. We are proud to be making a positive impact on the environment, and are committed to continuing to lead our sustainability practices to help build a better world for future generations.

### Plant Size

📐 3,000 m<sup>2</sup>    ⚡ 362 kW<sub>p</sub>    ⚙️ 240 kW<sub>ac</sub>    📄 432 kWh

### Estimated Annual Generation

📄 398,200 kWh

### Community Contribution per Year

☁️ 309t CO<sub>2</sub> emission reduced

🌳 269 equivalent of trees planted





## Manufacturing Execution System (MES)

Quality and efficiency is consistently guaranteed by our MES system, which monitors, tracks, documents, and controls the entire manufacturing process from raw materials to finished products, as well as full product lifecycle management.

# Where Quality Meets Perfection

At Sigenergy, our unwavering commitment to putting the customer first is at the core of everything we do. We firmly believe that delivering top-quality products is paramount to ensuring customer satisfaction and building long-term relationships. With a relentless pursuit of excellence, we constantly strive to develop innovative products that meet and exceed customer expectations. Our strict implementation of rigorous quality control guarantees that every product leaving our factories is of the highest standard. Moreover, we never settle for complacency; Instead, we embrace a culture of continuous improvement to constantly enhance our products and surpass industry standards.





# Powering Homes Worldwide

From Sweden's Frost to South Africa's Sun



From the coldest **-20°C** to the hottest **48°C**,  
from the **coastline** to the **snowfield**,  
from the **century-old** castle to the **modern** villa

SigenStor operates perfectly in a wide range of scenarios, from the frigid temperatures of northern regions like Sweden, where it can drop to -20°C, to the warmer climates of southern regions like Myanmar. Whether installed indoors or outdoors, SigenStor performs reliably in any environment. Whether you want to cut electricity bills, reduce reliance on diesel generators, or whole-home backup during power outages, 5-in-One SigenStor is here to meet your needs.

