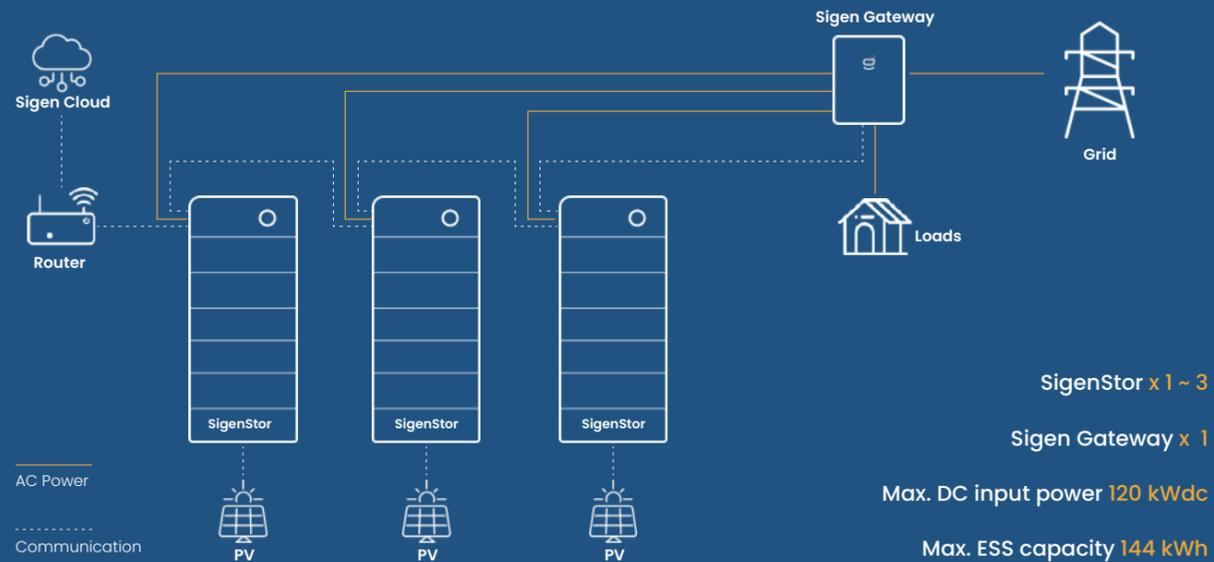
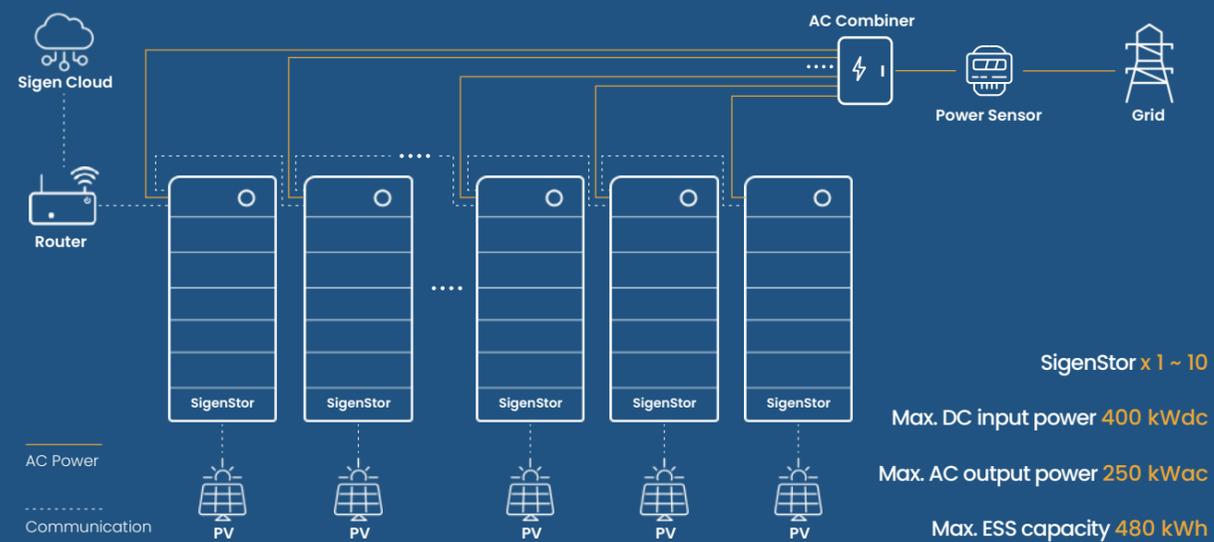


# Hybrid system

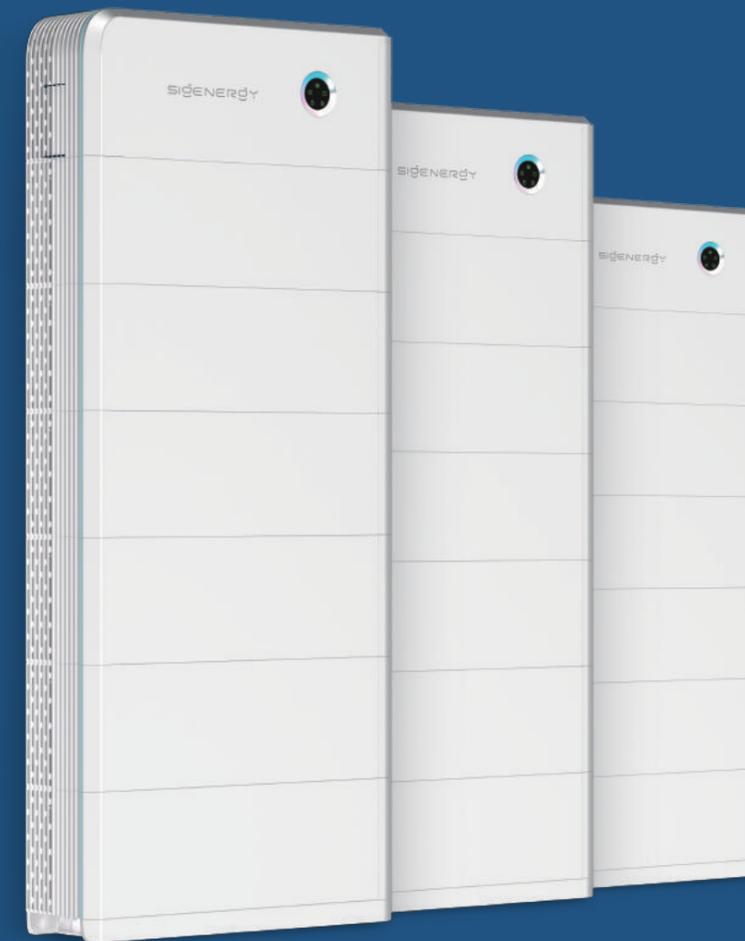


# On-grid system



# SigenStor

ENJOY GREEN ENERGY



**Better Investment**  
**Superior Safety**  
**Intelligent O&M**

## Sigen Energy Controller 5.0-25.0 kW Three Phase

Preliminary

| 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 | Units      |   |
|-------------------------------------|--------|--------|--------|---------|---------|---------|---------|---------|---------|------------|---|
| <b>DC Input (from PV)</b>           |        |        |        |         |         |         |         |         |         |            |   |
| Max. PV power                       | 8000   | 9600   | 12800  | 16000   | 19200   | 24000   | 27200   | 32000   | 40000   | 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 | W                         |    |
| Max. output apparent power        | 5500 | 6600 | 8800 | 11000 | 13200 | 16500 | 18700 | 22000 | 27500 | VA                        |    |
| Nominal output current            | 7.6  | 9.1  | 12.2 | 15.2  | 18.2  | 22.8  | 25.8  | 30.4  | 38.0  | A                         |    |
| Max. output current               | 8.4  | 10.0 | 13.4 | 16.7  | 20.1  | 25.1  | 28.4  | 33.4  | 41.8  | A                         |    |
| Nominal output voltage            |      |      |      |       |       |       |       |       |       | 380 / 400                 | V  |
| Nominal grid frequency            |      |      |      |       |       |       |       |       |       | 50 / 60                   | Hz |
| Power factor                      |      |      |      |       |       |       |       |       |       | 0.8 leading ~ 0.8 lagging |    |
| Total current harmonic distortion |      |      |      |       |       |       |       |       |       | THDi < 2%                 |    |

### Efficiency

|                     |  |  |  |  |  |  |  |  |  |       |
|---------------------|--|--|--|--|--|--|--|--|--|-------|
| Max. efficiency     |  |  |  |  |  |  |  |  |  | 98.5% |
| European efficiency |  |  |  |  |  |  |  |  |  | 98.0% |

### AC Output (backup)

|                                   |      |      |       |       |       |       |       |       |       |                           |    |
|-----------------------------------|------|------|-------|-------|-------|-------|-------|-------|-------|---------------------------|----|
| Peak output power (10 seconds)    | 7500 | 9000 | 12000 | 15000 | 18000 | 22500 | 25500 | 30000 | 30000 | W                         |    |
| Nominal output voltage            |      |      |       |       |       |       |       |       |       | 380 / 400                 | V  |
| Nominal output frequency          |      |      |       |       |       |       |       |       |       | 50 / 60                   | Hz |
| Power factor                      |      |      |       |       |       |       |       |       |       | 0.8 leading ~ 0.8 lagging |    |
| Total voltage harmonic distortion |      |      |       |       |       |       |       |       |       | THDv < 2%                 |    |
| Switch time to backup mode        |      |      |       |       |       |       |       |       |       | 5*                        | ms |

### Battery Connection

|                                  |  |  |  |  |  |  |  |  |  |                         |     |
|----------------------------------|--|--|--|--|--|--|--|--|--|-------------------------|-----|
| Battery module models            |  |  |  |  |  |  |  |  |  | SigenStor BAT 5.0 / 8.0 |     |
| Number of modules per controller |  |  |  |  |  |  |  |  |  | 1 ~ 6                   | pcs |
| Battery module voltage range     |  |  |  |  |  |  |  |  |  | 600 ~ 900               | V   |

### General Data

|                             |  |  |  |  |  |  |  |  |  |                   |    |
|-----------------------------|--|--|--|--|--|--|--|--|--|-------------------|----|
| Dimensions (W / H / D)      |  |  |  |  |  |  |  |  |  | 700 / 300 / 260   | mm |
| Weight                      |  |  |  |  |  |  |  |  |  | 30                | 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              |    |
| Noise emission              |  |  |  |  |  |  |  |  |  | < 45              | dB |

\* Need to be used together with Sigen Energy Gateway + Sigen Battery.

## Sigen Battery 5.0 / 8.0 kWh

| SigenStor BAT                                      | 5.0                           | 8.0  | Units |
|--|-------------------------------|------|-------|
| <b>Performance Specification</b>                   |                               |      |       |
| Battery type                                       | LiFePO <sub>4</sub>           |      |       |
| Total energy capacity                              | 5.38                          | 8.06 | kWh   |
| Usable energy capacity*                            | 5.2                           | 7.8  | kWh   |
| 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     |
| <b>General Data</b>                                |                               |      |       |
| Weight   | 57                            | 73   | 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            |      |       |
| Ingress protection rating                          | IP66                          |      |       |
| Noise emission                                     | < 30                          |      | dB    |
| Installation method                                | Floor standing / Wall-mounted |      |       |

\* Test conditions: 100% depth of discharge, 0.2C rate charge & discharge averagely at 25°C.

