

Sigen Battery 5.0 / 8.0 kWh

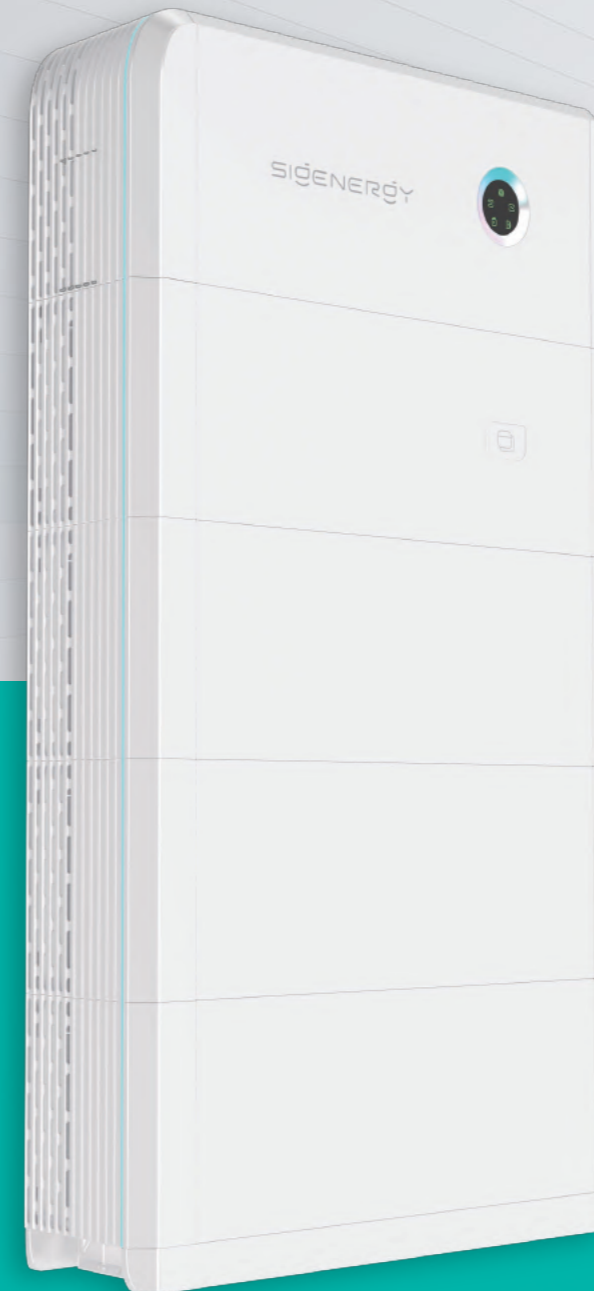
| SigenStor BAT | 5.0 | 8.0 | Units |
|---|---|------|-------|
| Performance Specification | | | |
| Battery type | LiFePO ₄ | | |
| Total energy capacity | 5.38 | 8.06 | kWh |
| Usable energy capacity ¹ | 5.2 | 7.8 | kWh |
| Battery modules voltage range (single phase system) | 300 ~ 600 | | V |
| Battery 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 | | |

1. Test conditions: 100% depth of discharge, 0.2C rate charge & discharge averagely at 25°C.
2. The combination of SigenStor BAT 8.0 and SigenStor EC single phase as example.

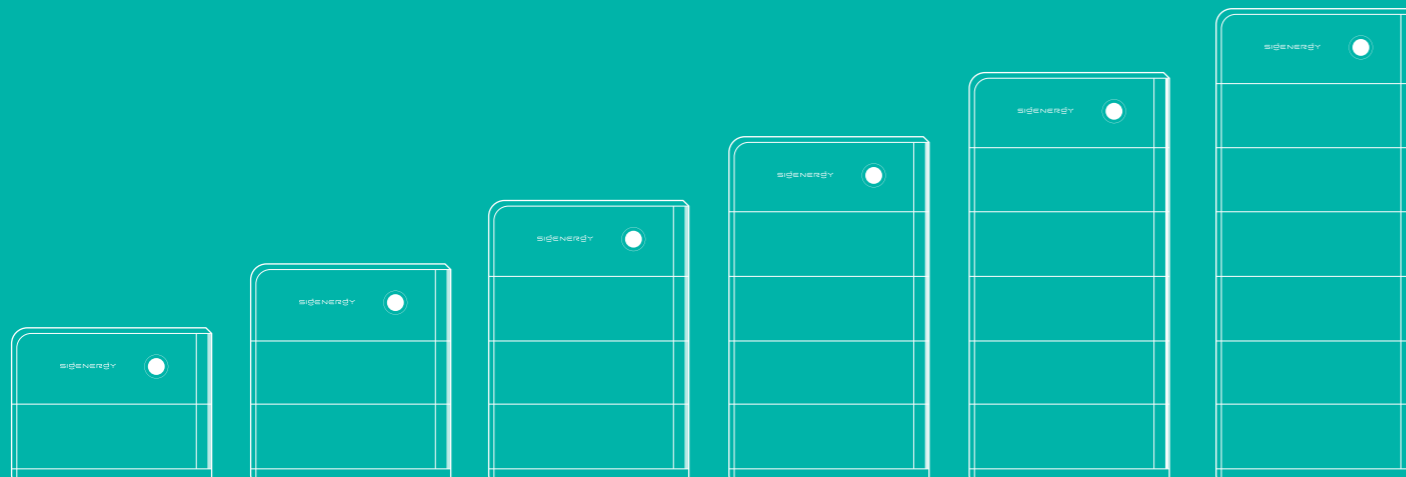


SigenStor

ENJOY GREEN ENERGY



- ▶ Sigen Energy Controller
- ▶ Sigen EV DC Charging Module
- ▶ Sigen Battery



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** switchover time

5 mins fast commissioning **4 layers** system protection **V2X** bi-directional charging **1-click** full system diagnosis



Sigen Energy Controller 3.0–6.0 kW Single Phase

| SigenStor EC | 3.0 SP | 3.6 SP | 4.0 SP | 4.6 SP | 5.0 SP | 6.0 SP | Units |
|---|--------|--------|--|--------|--------|--------|-------|
| DC Input (from PV) | | | | | | | |
| Max. PV power | 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 | | | 20 | | | | A |
| AC Output (on-grid) | | | | | | | |
| Nominal output power | 3000 | 3680 | 4000 | 4600 | 5000 | 6000 | W |
| Max. output apparent power | 3300 | 3680 | 4400 | 5000 | 5500 | 6600 | VA |
| Nominal output current | 13.6 | 16.0 | 18.2 | 20.9 | 22.7 | 27.3 | A |
| Max. output current | 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 < 2% | | | | |
| Efficiency | | | | | | | |
| Max. efficiency | | | 98.0% | | | | |
| European efficiency | 97.0% | 97.1% | 97.2% | 97.3% | 97.4% | 97.4% | |
| AC Output (backup) | | | | | | | |
| Peak output power (10 seconds) | 4500 | 5520 | 6000 | 6900 | 7500 | 9000 | W |
| Nominal output voltage | | | 220 / 230 / 240 | | | | 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 ¹ | | | 0 | | | | ms |
| Battery Connection | | | | | | | |
| Battery module models | | | SigenStor BAT 5.0 / 8.0 | | | | |
| Number of modules per controller | | | 1 ~ 6 | | | | pcs |
| Battery module voltage range | | | 300 ~ 600 | | | | V |
| General Data | | | | | | | |
| Dimensions (W / H / D) | | | 700 / 300 / 245 | | | | mm |
| Weight | | | 18 | | | | 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) | | | | |
| Standard Compliance | | | | | | | |
| Standard ² | | | IEC/EN 62109-1, IEC/EN 62109-2, IEC/EN 62477, IEC/EN 61000-6-1, IEC/EN 61000-6-2 | | | | |

1. Need to be used together with Sigen Energy Gateway 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.
2. For all standards refer to the certificates category in the Sigenenergy website.

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 |
|---|--------|--------|--------|---------|---|---------|---------|---------|---------|-------|
| DC Input (from PV) | | | | | | | | | | |
| 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 | | | | | 98.4% | | | | | |
| 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 ¹ | | | | | 0 | | | | | 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 | | | | | |
| System ingress protection rating | | | | | IP66 | | | | | |
| Communication | | | | | WLAN / Fast Ethernet / RS485 / Sigen CommMod (4G/3G/2G) | | | | | |

1. Need to be used together with Sigen Energy Gateway 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.