

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 | | | | | | | 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 | | | | | | | 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 | |
| Ingress protection rating | | | | | | | IP66 | |
| Noise emission | | | | | | | < 30 | dB |

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