

# Sigen Hybrid Inverter

5.0 – 25.0 kW Three Phase



- Battery ready, future proof
- DC ground-fault protection
- DC/AC ratio up to 1.6
- Up to 4 MPP trackers
- IP66 protection rating

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# Sigen Hybrid Inverter 5.0-25.0 kW Three Phase

Preliminary

| 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 | Units |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------|---------|---------------------------|---------|---------|---------|---------|-------|
| DC Input                            |                                                                                                                                                                                                                                                       |        |        |         |                           |         |         |         |         |       |
| 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%                     |         |         |         |         |       |
| Additional Features                 |                                                                                                                                                                                                                                                       |        |        |         |                           |         |         |         |         |       |
| Compatible battery module           |                                                                                                                                                                                                                                                       |        |        |         | SigenStor BAT 5.0 / 8.0   |         |         |         |         |       |
| 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   | W     |
| Nominal output voltage              |                                                                                                                                                                                                                                                       |        |        |         | 380 / 400                 |         |         |         |         | V     |
| Protection                          |                                                                                                                                                                                                                                                       |        |        |         |                           |         |         |         |         |       |
| Safety protection feature           | DC ground fault protection, Arc fault circuit interrupter, DC reverse polarity protection, Anti-islanding protection, AC overcurrent/overvoltage/short-circuit protection, Insulation monitoring, Residual current monitoring, DC/AC surge 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)                                                                                                                                                                                               |        |        |         |                           |         |         |         |         |       |

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