



SIGENERGY



# Sigen Hybrid Inverter

**5.0-12.0 kW** Three Phase

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

**NEW**

# Sigen Hybrid Inverter 5.0–12.0 kW Three Phase Australia

Preliminary

| Sigen Hybrid                                  | 5.0 TP2 AU  | 6.0 TP2 AU | 8.0 TP2 AU | 10.0 TP2 AU | 12.0 TP2 AU | Units |
|---|---|------------|------------|-------------|-------------|-------|
| <b>DC Input (from PV)</b>                     |   |            |            |             |             |       |
| Max. PV power                                 | 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     |
| <b>Battery Connection</b>                     |   |            |            |             |             |       |
| Battery controller models                     | SigenStor BC  |            |            |             |             |       |
| Battery module models                         | SigenStor BAT series  |            |            |             |             |       |
| Number of modules per controller              | 1 ~ 6   |            |            |             |             |       |
| Battery module voltage range                  | 300 ~ 600   |            |            |             |             |       |
| <b>AC Output (on-grid)</b>                    |   |            |            |             |             |       |
| Nominal output power                          | 5000  | 6000       | 8000       | 9999        | 12000       | W     |
| Max. output apparent power                    | 5000  | 6600       | 8800       | 9999        | 13200       | VA    |
| Nominal output current                        | 7.2   | 9.1        | 12.2       | 14.4        | 18.2        | A     |
| Max. output current                           | 7.2   | 10.0       | 13.4       | 14.4        | 20.1        | A     |
| Nominal output voltage                        | 230/400, 240/415 (3W/N+PE)  |            |            |             |             |       |
| Nominal grid frequency                        | 50 / 60   |            |            |             |             |       |
| Power factor                                  | 0.8 leading ~ 0.8 lagging   |            |            |             |             |       |
| Total current harmonic distortion             | THDi < 3%   |            |            |             |             |       |
| <b>AC Output (backup)</b>                     |   |            |            |             |             |       |
| Peak output power (10 seconds)                | 7500  | 9000       | 12000      | 15000       | 18000       | W     |
| Nominal output voltage                        | 230/400, 240/415 (3W/N+PE)  |            |            |             |             |       |
| Nominal output frequency                      | 50 / 60   |            |            |             |             |       |
| Power factor                                  | 0.8 leading ~ 0.8 lagging   |            |            |             |             |       |
| Total voltage harmonic distortion             | THDi < 3%   |            |            |             |             |       |
| Disruption time of backup switch <sup>1</sup> | 0   |            |            |             |             |       |
| <b>Efficiency</b>                             |   |            |            |             |             |       |
| Max. efficiency                               | 98.9%   | 99.0%      | 99.0%      | 99.0%       | 99.0%       |       |
| European efficiency                           | 98.3%   | 98.5%      | 98.5%      | 98.5%       | 98.5%       |       |
| <b>Protection</b>                             |   |            |            |             |             |       |
| 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 |            |            |             |             |       |
| <b>General Data</b>                           |   |            |            |             |             |       |
| Dimensions (W / H / D)                        | 477 / 568 / 99  |            |            |             |             |       |
| Weight  | 19.5  |            |            |             |             |       |
| Storage temperature range                     | -40 ~ 70  |            |            |             |             |       |
| Operating temperature range                   | -30 ~ 60  |            |            |             |             |       |
| Relative humidity range                       | 0% ~ 95%  |            |            |             |             |       |
| Max. operating altitude                       | 4000  |            |            |             |             |       |
| 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   |            |            |             |             |       |
| Noise   | 28  |            |            |             |             |       |

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