

## ECO HYBRID

# SNA PRO-EU 3-6.5K (Single-Phase)

- 2 MPPTs with Max. PV input of 12kW
- IP65 protection rating: Ensures reliable dust and water resistance
- Parallel operation: Supports up to 16 units for scalable energy solutions
- Max. charge/discharge current: 140A
- Seamless off-grid switching: Automatic transition for uninterrupted power
- Dedicated port: Supports generator or smart load management for enhanced system stability
- Smart monitoring: Remote configuration and real-time performance tracking



| Model                                            | SNA PRO-EU 3K                                | SNA PRO-EU 4K     | SNA PRO-EU 5K     | SNA PRO-EU 6K | SNA PRO-EU 6.5K |
|--------------------------------------------------|----------------------------------------------|-------------------|-------------------|---------------|-----------------|
| Input (PV DC)                                    |                                              |                   |                   |               |                 |
| Max. PV array power (W)                          | 7500 (3750/3750)                             | 10000 (5000/5000) | 15000 (7500/7500) |               |                 |
| Max. PV input power (W)                          | 6000 (3000/3000)                             | 8000 (4000/4000)  | 12000 (6000/6000) |               |                 |
| Number of independent MPPT inputs                | 2                                            |                   |                   |               |                 |
| Max. PV input voltage (V)                        | 500                                          |                   |                   |               |                 |
| MPPT voltage range (V)                           | 80 ~ 400                                     |                   |                   |               |                 |
| Start-up voltage (V)                             | 100                                          |                   |                   |               |                 |
| Max. PV input current per MPPT (A)               | 40 (20 / 20)                                 |                   |                   |               |                 |
| Max. PV short-circuit current input per MPPT (A) | 50 (25 / 25)                                 |                   |                   |               |                 |
| Battery                                          |                                              |                   |                   |               |                 |
| Compatible battery type                          | Lithium-ion / Lead-Acid                      |                   |                   |               |                 |
| Rated battery voltage (V)                        | 48                                           |                   |                   |               |                 |
| Battery voltage range (V)                        | 40 ~ 60                                      |                   |                   |               |                 |
| Max. charging/discharging current (A)            | 70                                           | 90                | 110               | 135 / 140     | 135 / 140       |
| Max. charging/discharging power (W)              | 3000                                         | 4000              | 5000              | 6000          | 6500            |
| Force wake up battery from PV function           | YES                                          |                   |                   |               |                 |
| Force wake up battery from Grid function         | YES                                          |                   |                   |               |                 |
| Force wake up battery from GEN fuction           | YES                                          |                   |                   |               |                 |
| Grid                                             |                                              |                   |                   |               |                 |
| Rated AC voltage (V)                             | 230                                          |                   |                   |               |                 |
| Rated AC frequency (Hz)                          | 50 / 60                                      |                   |                   |               |                 |
| Rated AC output current (A)                      | 13                                           | 17.5              | 22                | 26.5          | 28.2            |
| Rated AC output power (W)                        | 3000                                         | 4000              | 5000              | 6000          | 6500            |
| Max. AC intput power (W)                         | 6000                                         | 8000              | 8000              | 9000          | 9000            |
| PF                                               | 0.99                                         |                   |                   |               |                 |
| THDI                                             | < 5%                                         |                   |                   |               |                 |
| Max. continuous AC passthrough current (A)       | 40                                           |                   |                   |               | 60              |
| GEN                                              |                                              |                   |                   |               |                 |
| Rated GEN voltage (V)                            | 230                                          |                   |                   |               |                 |
| Rated GEN frequency (Hz)                         | 50 / 60                                      |                   |                   |               |                 |
| Rated GEN input current (A)                      | 13                                           | 32                |                   |               |                 |
| Rated GEN input power (W)                        | 3000                                         | 7370              |                   |               |                 |
| UPS                                              |                                              |                   |                   |               |                 |
| Rated output power (W)                           | 3000                                         | 4000              | 5000              | 6000          | 6500            |
| Rated output voltage (V)                         | 230 / 120                                    | 230               |                   |               |                 |
| Rated output current (A)                         | 13                                           | 17.5              | 22                | 26.5          | 28.2            |
| Rated output frequency (Hz)                      | 50 / 60                                      |                   |                   |               |                 |
| Surge power, duration                            | 6000W, 5s                                    | 8000W, 5s         | 10000W, 5s        | 12000W, 5s    | 13000W, 5s      |
| Switching time                                   | < 10ms @ Single; < 20ms @ Parallel           |                   |                   |               |                 |
| Wave form                                        | Sine wave                                    |                   |                   |               |                 |
| Load Capacity of Motor                           | 3HP                                          |                   | 4HP               | 5HP           |                 |
| OverLoad Capacity                                | 10s@110% ~ 150 % load; 5s@150% ~ 200% load   |                   |                   |               |                 |
| THDV                                             | 3%                                           |                   |                   |               |                 |
| Efficiency                                       |                                              |                   |                   |               |                 |
| MPPT efficiency                                  | 99.0%                                        |                   |                   |               |                 |
| Max. efficiency                                  | 94.0%                                        |                   |                   |               |                 |
| Max. charge efficiency                           | 94.0 %                                       | 93.0%             |                   | 94.0 %        |                 |
| Max. discharge efficiency                        | 93.0%                                        |                   |                   |               |                 |
| Protection                                       |                                              |                   |                   |               |                 |
| PV reverse polarity protection                   | YES                                          |                   |                   |               |                 |
| Over current/voltage protection                  | YES                                          |                   |                   |               |                 |
| Anti-islanding protection                        | YES                                          |                   |                   |               |                 |
| AC Short-circuit current protection              | YES                                          |                   |                   |               |                 |
| Grid monitoring                                  | YES                                          |                   |                   |               |                 |
| Ground fault monitoring                          | YES                                          |                   |                   |               |                 |
| AC/DC surge protection                           | Type II                                      |                   |                   |               |                 |
| Leakage current protection                       | Optional                                     |                   |                   |               |                 |
| DC switch                                        | Optional                                     |                   |                   |               |                 |
| Rapid shut down                                  | Optional                                     |                   |                   |               |                 |
| AFCI protection                                  | Optional                                     |                   |                   |               |                 |
| General                                          |                                              |                   |                   |               |                 |
| Dimensions (W × H × D)                           | 434 × 384 × 187 mm / 17.09 × 15.12 × 7.36 in |                   |                   |               |                 |
| Weight                                           | 16.95 kg / 37.38 lbs                         |                   |                   |               |                 |
| Ingress protection rating                        | IP65                                         |                   |                   |               |                 |
| Operating environment temperature range (°C)     | -25 ~ 60, >45°C derating                     |                   |                   |               |                 |
| Storage temperature range (°C)                   | -15 ~ 60                                     |                   |                   |               |                 |
| Relative humidity                                | 5% ~ 95%                                     |                   |                   |               |                 |
| Display & Communication interface                | LCD + LED, RS485 / Wi-Fi / CAN               |                   |                   |               |                 |
| Warranty                                         | 5 years                                      |                   |                   |               |                 |
| Cooling method                                   | Smart Cooling                                |                   |                   |               |                 |
| Topology on AC side                              | Transformerless                              |                   |                   |               |                 |
| Topology on Battery side                         | Transformer                                  |                   |                   |               |                 |
| Max. Operating Altitude (m)                      | 4000, >2000 Power derating                   |                   |                   |               |                 |
| Noise emission (dB)                              | 40                                           |                   |                   |               |                 |
| Standards & Certification                        |                                              |                   |                   |               |                 |