

ECO HYBRID

LU X POWER TEK

# SNA 3-6K Single phase

- Off-grid seamless switching
- Wide PV input voltage range
- Single phase/Unbalanced 3-Phase
- Supports up to 16pcs in parallel
- Host inverter automatically generated to manage the entire system
- Separate generator port available



## SpecifiCation

| INPUT (PV DC)                                   | SNA 3000W        |  | SNA 4000W        |  | SNA 5000W                                       | SNA 6000W        |
|-------------------------------------------------|------------------|--|------------------|--|-------------------------------------------------|------------------|
| Max. PV array power(W)                          | 6000 (3000/3000) |  | 8000 (4000/4000) |  | 8000 (4000/4000)                                | 8000 (4000/4000) |
| Rated PV input voltage(V)                       |                  |  |                  |  | 320                                             |                  |
| Number of independent MPPT inputs               |                  |  |                  |  | 2                                               |                  |
| PV input voltage range(V)                       |                  |  |                  |  | 100~480                                         |                  |
| MPPT voltage range(V)                           |                  |  |                  |  | 120~385                                         |                  |
| Start-up voltage(V)                             |                  |  |                  |  | 100                                             |                  |
| Max. PV input current per MPPT(A)               |                  |  |                  |  | 17/17                                           |                  |
| Max. PV short-circuit current input per MPPT(A) |                  |  |                  |  | 25/25                                           |                  |
| Battery                                         |                  |  |                  |  |                                                 |                  |
| Compatible battery type                         |                  |  |                  |  | Lithium-ion/Lead-Acid                           |                  |
| Rated battery voltage(V)                        |                  |  |                  |  | 48                                              |                  |
| Battery voltage range(V)                        |                  |  |                  |  | 38.4~60                                         |                  |
| Max. charging/discharging current(A)            | 70/70            |  | 90/90            |  | 110/110                                         | 125/140          |
| Max. charging/discharging power(W)              | 3000             |  | 4000             |  | 5000                                            | 6000             |
| Recommend capacity of battery per inverter      | >100AH           |  | >200AH           |  | >200AH                                          | >200AH           |
| Force wake up battery from PV function          |                  |  |                  |  | YES                                             |                  |
| Force wake up battery from Grid function        |                  |  |                  |  | YES                                             |                  |
| Grid                                            |                  |  |                  |  |                                                 |                  |
| Rated AC voltage(V)                             |                  |  |                  |  | 230                                             |                  |
| Rated AC frequency(Hz)                          |                  |  |                  |  | 50/60                                           |                  |
| Rated AC output current(A)                      | 13.5             |  | 17.5             |  | 22                                              | 26.5             |
| Rated AC output power(W)                        | 3000             |  | 4000             |  | 5000                                            | 6000             |
| PF                                              |                  |  |                  |  | 0.99(Adjustable from 0.8 leading to0.8 lagging) |                  |
| THDI                                            |                  |  |                  |  | <5%                                             |                  |
| Rated AC current of BYPASS relays(A)            |                  |  |                  |  | 40                                              |                  |
| UPS                                             |                  |  |                  |  |                                                 |                  |
| Rated output power(W)                           | 3000             |  | 4000             |  | 5000                                            | 6000             |
| Rated output voltage(V)                         |                  |  |                  |  | 230                                             |                  |
| Rated output current(A)                         | 13.5             |  | 17.5             |  | 22                                              | 26.5             |
| Rated output frequency(Hz)                      |                  |  |                  |  | 50/60                                           |                  |
| Surge power, duration                           |                  |  |                  |  | 2Pn, <2s                                        |                  |
| Switching time                                  |                  |  |                  |  | <15ms@Single/ <30ms@Parallel                    |                  |
| Wave form                                       |                  |  |                  |  | Sine wave                                       |                  |
| THDV                                            |                  |  |                  |  | 3%                                              |                  |
| Efficiency                                      |                  |  |                  |  |                                                 |                  |
| Max. MPPT efficiency                            |                  |  |                  |  | 99%                                             |                  |
| Max. efficiency                                 |                  |  |                  |  | 93%                                             |                  |
| Max. charging efficiency                        |                  |  |                  |  | 93%                                             |                  |
| Max. discharging efficiency                     |                  |  |                  |  | 93%                                             |                  |
| Protection                                      |                  |  |                  |  |                                                 |                  |
| Over current/voltage protection                 |                  |  |                  |  | YES                                             |                  |
| AC Short-circuit current protection             |                  |  |                  |  | YES                                             |                  |
| Grid monitoring                                 |                  |  |                  |  | YES                                             |                  |
| AC Surge protection Type III                    |                  |  |                  |  | YES                                             |                  |
| Battery reverse polarity protection             |                  |  |                  |  | YES                                             |                  |
| General                                         |                  |  |                  |  |                                                 |                  |
| Dimensions(W*H*D)                               |                  |  |                  |  | 330*505*135mm/13*19.9*5.3inch                   |                  |
| Weight                                          |                  |  |                  |  | 14.5kg/32lbs                                    |                  |
| Ingress protection rating                       |                  |  |                  |  | IP20                                            |                  |
| Operating environment temperature range         |                  |  |                  |  | 0~50°C                                          |                  |
| Storage temperature range                       |                  |  |                  |  | -15~60°C                                        |                  |
| Relative humidity                               |                  |  |                  |  | 5%~95%                                          |                  |
| Display & Communication interface               |                  |  |                  |  | LCD+LED, RS485/Wi-Fi/CAN                        |                  |
| Warranty                                        |                  |  |                  |  | 2years                                          |                  |
| Cooling method                                  |                  |  |                  |  | Smart Cooling                                   |                  |
| Topology                                        |                  |  |                  |  | Transformer-less                                |                  |
| Altitude                                        |                  |  |                  |  | <2000m                                          |                  |
| Noise emission(typical)                         |                  |  |                  |  | <50dB                                           |                  |
| Standards & Certification                       |                  |  |                  |  |                                                 |                  |