

# SYNAPSE

## 5.0K+ Off-Grid Inverter

- Zero transfer time to protect mission-critical loads such as servers and ATM.
- Detachable LCD control module with multiple communications
- Built-in Bluetooth for mobile monitoring (Android App is available)
- Supports USB On-the-Go function
- Reserved communication port for BMS (RS485, CAN-BUS or RS232)
- Configurable AC/PV output usage timer and prioritization
- Optional parallel operation up to 9 units



| Model                                                                |                                               |
|----------------------------------------------------------------------|-----------------------------------------------|
| Product Code                                                         | SYNAPSE 5.0K+                                 |
| Rated Power                                                          | 5000VA / 5000W                                |
| Parallel Capability                                                  | Up to 9 Units                                 |
| Input                                                                |                                               |
| Voltage                                                              | 230 V AC                                      |
| Voltage Range                                                        | 110 - 280 V AC                                |
| Frequency Range                                                      | 50Hz / 60Hz (Auto sensing)                    |
| Output                                                               |                                               |
| AC Voltage Regulation (Battery Mode)                                 | 230 V AC $\pm$ 5%                             |
| Surge Power                                                          | 10000VA for 5 sec                             |
| Efficiency (Peak)                                                    | 93% at Line Mode 90% at Battery Mode          |
| Transfer Time                                                        | 0 ms                                          |
| Waveform                                                             | Pure sine wave                                |
| Battery                                                              |                                               |
| Battery Voltage                                                      | 48 V DC                                       |
| Floating Charge Voltage                                              | 54 V DC                                       |
| Overcharge Protection                                                | 66 V DC                                       |
| Solar Charger & AC Charger                                           |                                               |
| Maximum PV Array Open Circuit Voltage                                | 145 V DC                                      |
| Maximum PV Array Power                                               | 4000 W                                        |
| MPP Range @ Operating Voltage                                        | 60 ~ 115V DC                                  |
| Maximum Solar Charge Current                                         | 80A                                           |
| Maximum AC Charge Current                                            | 60A                                           |
| Maximum Charge Current                                               | 140A                                          |
| Physical                                                             |                                               |
| Dimension (D x W x H)                                                | 140 x 303 x 525 mm                            |
| Net Weight                                                           | 13.5kgs                                       |
| Communication Interface                                              | USB / RS232 / RS485 / Bluetooth / Dry-contact |
| Environment                                                          |                                               |
| Humidity                                                             | 5% to 95% Relative Humidity (Non-condensing)  |
| Operating Temperature                                                | 0°C to 55°C                                   |
| Storage Temperature                                                  | -15°C to 60°C                                 |
| Product specifications are subject to change without further notice. |                                               |