



**NEW!**

# ESS PRO-9.15

All-In-One Residential ESS (On/Off grid)

Max. 6000W

9.15 kWh Capacity

48VDC

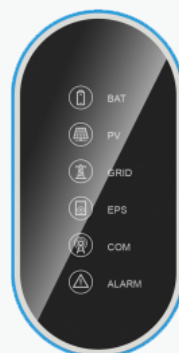


## Key Features

- All-In-One system design
- Eliminate your outage anxiety
- More cost efficient than ever
- Compact size, space saving
- 10 ms smooth power backup
- Plug & Play



## Multifunctional Control Unit





# Specification

## System Specification

|                             |                               |
|-----------------------------|-------------------------------|
| Rated Energy                | 9.15 kWh (95% DOD)            |
| Nominal Voltage             | 48 VDC                        |
| IP Protection               | IP54 (Battery System is IP65) |
| Dimension (W x D x H)       | 670 × 330 × 1100 mm           |
| Weight                      | 125 Kg                        |
| Operating Temperature Range | -10 °C ~ 50 °C*               |
| Designed Cycle Life         | ≥6000*                        |
| Connection Operation        | Up to 9 units in Parallel     |
| Charging Time               | 2 Hours                       |
| Charge/Discharge Rate       | 0.5C                          |

\* When the temperature is below 0 °C or above 40 °C, the performance will be limited.

\* 6000 life cycle takes approximately 10 years for daily use. Warranty: 2 years.

## Inverter Technical Specification (On/Off-grid)

|                                     |                         |
|-------------------------------------|-------------------------|
| Max. PV Input Power                 | 9000 W                  |
| Max PV Input voltage                | 550 V                   |
| Max input current (input A/input B) | 15 A/15 A               |
| Max short current (input A/input B) | 20 A/20 A               |
| Start operating voltage             | 90V                     |
| MPPT Voltage Range                  | 70~540 VDC              |
| No.of MPPT trackers                 | 2                       |
| String per MPP tracker              | 1                       |
| Nominal Output Power(Grid/Back up)  | 6000 W                  |
| Rated Frequency                     | 50 / 60 Hz              |
| Rated Voltage                       | 230 VAC                 |
| Phase                               | Single-Phase            |
| Backup                              | 10ms (typ) / 20ms (max) |
| Humidity                            | 0% to 100%              |

## Recommended PV module configuration\*

| PV Module Spec (reference)            | Total solar input power | Solar input                                   | Q'ty of modules |
|---------------------------------------|-------------------------|-----------------------------------------------|-----------------|
|                                       | 3780 W                  | 7 pieces in series, input 1 tracker           | 7               |
| Maximum Power (PmaxI): 540 W          | 4320 W                  | 8 pieces in series, input 1 tracker           | 8               |
| Max. Power Voltage Vmpp(V): 41.3 V    | 4860 W                  | 9 pieces in series, input 1 tracker           | 9               |
| Max. Power Current Impp(A): 13.08 A   | 5400 W                  | 10 pieces in series, input 1 tracker          | 10              |
| Open Circuit Voltage Voc(V): 49.2 V   | 6480 W                  | 6 pieces in series, 2 strings input 2 tracker | 12              |
| Short Circuit Current Isc(A): 13.90 A | 7560 W                  | 7 pieces in series, 2 strings input 2 tracker | 14              |
|                                       | 8640 W                  | 8 pieces in series, 2 strings input 2 tracker | 16              |

\*This configuration is only for reference as rooftop or solar condition may vary due to different application environment. Contact your service supplier for optimized solution.

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