

SUN8000S-U

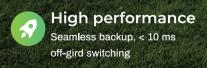


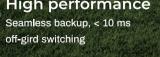
## RoyPow residential energy storage system

Reliable energy when you need it most



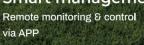














Maximized safety Lithium Iron Phosphate (LFP) Cell & integrated AFCI & rapid shut down



**Fully functional** Support parallel working and



## **Technical specifications**



| System parameters                   |   |                               |                             |
|-------------------------------------|---|-------------------------------|-----------------------------|
| Quantity of batteries (Recommended) | 2 - 8                                       | Rated output power            | 8,000 W                     |
| Degree of protection                | IP65  | Ambient temperature range [1] | -4°F ~ 131°F (-20°C ~ 55°C) |
| Allowable relative humidity range   | 5% ~ 95%                                    | Max. operating altitude [2]   | 4,000 m                     |
| Display                             | LCD & APP                                   |                               |                             |
| Communication                       | RS485 / CAN (optional: WiFi / 4G / GPRS)    |                               |                             |
| Product ordering model              | ordering model SUN8000S-U + N * (RBmax5.3L) |                               |                             |

| 501160005-C | oc | del |  | SUN8000S-U |
|-------------|----|-----|--|------------|
|-------------|----|-----|--|------------|

| n | /Or | ter | $\mathbf{m}$ | $\sim$ | ш | $\sim$ |
|---|-----|-----|--------------|--------|---|--------|
|   |     | LEI |              | ou     | u | _      |

| Rated battery voltage                | L   | 48 V                         |               |  |
|--------------------------------------|---|------------------------------|---------------|--|
| Max. charge current                  | 190 A                                       | Max. discharge current       | 190 A         |  |
| Recommended max. PV input power      | 12,000 W                                    | Max. input voltage           | 500 V         |  |
| Rated input voltage                  | 360 V                                       | MPPT operating voltage range | 120 V ~ 500 V |  |
| Number of MPPT trackers              | 4   | Max. input current per MPPT  | 12 A          |  |
| Rated grid voltage                   | L1 + L2 + N + PE 120 V                      | / 240 V split phase 60 Hz    |               |  |
| Grid voltage range                   | 102 Vac ~ 132 Vac                           | / 204 Vac ~ 265 Vac          |               |  |
| Rated AC power                       | 8,00  | 00 VA                        |               |  |
| Max. AC power output to utility grid | 8,80  | 00 VA                        |               |  |
| Rated voltage frequency (off grid)   | L1 + L2 + N + PE 120 V                      | / 240 V split phase 60 Hz    |               |  |
| Max. apparent power (off grid)       | 8,80  | 00 VA                        |               |  |
| Switch time < 10 ms                  |   |                              |               |  |
| Max. efficiency of solar inverter    | efficiency of solar inverter 98,2%          |                              |               |  |
| CEC efficiency                       | 97  | .2%                          |               |  |
| Topology                             | Transfo                                     | ormerless                    |               |  |
| Dimension (W * D * H)                | 16.9 * 8.7 * 28.0 inch (430 * 220 * 710 mm) |                              |               |  |
| Weight                               | 90.4 lbs                                    | (41.0 kg)                    |               |  |

## Battery module

| Model                    | RBmax5.3L                                   |  |
|--------------------------|---|--|
| Battery module energy    | 5,38 kWh                                    |  |
| Rated Power              | 5,000 W                                     |  |
| Battery type             | Lithium Iron Phosphate (LFP)                |  |
| Depth of discharge (DoD) | 0 ~ 93% adjustable                          |  |
| Dimension (W * D * H)    | 25.6 * 9.4 * 13.0 inch (650 * 240 * 330 mm) |  |
| Weight                   | 121.3 lbs (55.0 kg)                         |  |

## Certification

| Safety           | UL1741SA all options, UL1699B, UL9540A, CSA 22.2                  |  |
|------------------|---|--|
| EMC              | FCC Part 15, Class B  |  |
| On-grid standard | IEEE 1547, IEEE 2030.5, Hawaii Rule 14H, Rule 21 Phase I, II, III |  |

<sup>[1]</sup> Refer to temperature derating curve

Information may be subject to change without notice during product improving. For the latest product specs, please refer to RoyPow website: www.roypowtech.com

All pictures shown are for reference only and data are based on RoyPow standard test procedures, Actual performance may vary according to local conditions.











<sup>[2]</sup> Refer to derating curve, >2000m, the system will be derating use.