



Single cell Portable All-in-one ESS

OCEAN SOLAR



OCE-ESS-1000W

1000W/2kWh Portable All-in-one ESS



1000 W pure sine



Dual 314Ah LFP



Fast PV/AC charging



<20 ms UPS transfer



Bidirectional inverter+BMS



2 kWh home essentials

| Model | OCE-ESS-1000W |
|-------------------------------------|--|
| AC Input | |
| Input Mode | Single-phase two-wire (L/N) |
| Output Voltage Waveform | Pure sine wave |
| Rated Voltage | 230Vac |
| Voltage Range | 90~280Vac \pm 5V |
| Frequency Range | 45~65Hz |
| Power Factor | >0.95 |
| Frequency Range | 1000W MAX |
| Power Factor | 3-pin AC inlet(covered).male*1 |
| PV Input | |
| Nominal Photovoltaic Voltage | 38V |
| Voltage Range | 10~55Vdc |
| Maximum Current | 15A |
| Maximum Power (MPPT) | 550W |
| Input Port | XT90E-M (with cover)*1 |
| AC Output | |
| Output Mode | Single-phase two-wire |
| Rated Voltage | 230Vac \pm 5V |
| Rated Frequency | 50Hz \pm 0.5% |
| THD Total Harmonic Distortion (THD) | <3% line /<5% nonlinear |
| Power Factor | \geq 0.99 |
| Full Load Power | 1000W |
| UPS Switching Time | \leq 20ms |
| Maximum Inverter Efficiency | 90% |
| Output Port | Universal socket*2 |
| DC Output | |
| Output Mode | 5V |
| Output Current | 1A |
| Maximum Output Power | 5W Max. |
| THD Output Port | USB*1 |
| Battery | |
| Rated Voltage | 6.4V |
| Voltage Range | 5.8~7.3V |
| Typical Capacity | 314Ah*2 |
| Capacity | 2009.6Wh |
| Maximum Charging Current | 160A |
| Maximum Charging Power | 1000W |
| Protection Function | |
| Undervoltage/Overvoltage Protection | Yes |
| Short Circuit Protection | Yes |
| Over-temperature Protection | Yes |
| Display Function | |
| LED Indicator Light | 4 SOC power indicators, 1 working status indicator |
| LED Power Indicator | 25/50/75/100% |
| Environment | |
| Operating Temperature | -10°C~ 50°C |
| Storage Temperature | -15°C~60°C |
| Humidity | 20%~95% RH without condensation |
| Altitude | \leq 3000m, >3000 m derate 1% per 100 m |
| Noise (dB) | <40dB (1 meter) |
| General Data | |
| Product Dimensions (mm) | 240*225*355 mm |
| Packaging Dimensions (mm) | 295*275*453 mm |
| Net Weight (kg) | 19.0 KG |
| Gross Weight (kg) | 20.0 KG |