



OCE-ESS-500W

500W/1kWh Portable All-in-one ESS

 500 W pure sine wave

 Single 314Ah LFP

 Fast PV/AC charging

 <20 ms UPS transfer

 Bidirectional inverter+BMS

 Home/shop backup ready

Model	OCE-ESS-500W
AC Input	
Input Mode	Single-phase two-wire (L/N)
Output Voltage Waveform	Pure Sine Wave
Rated Voltage	230Vac
Voltage Range	90–280Vac ±5V
Frequency Range	45–65Hz
Power Factor	>0.95
AC Charging Power	500W MAX
AC inlet	3-pin AC inlet(covered).male*1
PV Input	
Nominal Photovoltaic Voltage	30V
Voltage Range	10–55Vdc
Maximum Current	10A
Maximum Power (MPPT)	300W
Input Port	XT90E-M (with cover)*1
AC Output	
Output Mode	Single-phase two-wire
Rated Voltage	230Vac ±5V
Rated Frequency	50Hz ±0.5%
Total Harmonic Distortion (THD)	<3% line /<5% non-linear
Power Factor	≥0.99
Full Load Power	500W
UPS Switching Time	≤20ms
Maximum Inverter Efficiency	88%
Output Port	Universal socket*1
DC Output	
Output Mode	5V
Output Current	1A
Maximum Output Power	5W Max.
Output Port	USB*1
Battery	
Rated Voltage	3.2V
Voltage Range	2.9–3.65V
Typical Capacity	314Ah
Capacity	1004.8Wh
Maximum Charging Current	140A
Maximum Charging Power	500W
Protection Function	
Undervoltage/Overvoltage Protection	Yes
Short Circuit Protection	Yes
Over-temperature Protection	Yes
Display Function	
LED Indicator Light	4 SOC power indicators, 2 working status indicators
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	≤3000m, >3000 m derate 1% per 100 m
Noise	<40dB (1 meter)
General Data	
Product Dimensions	210*156*356mm
Packaging Dimensions	262*212*412mm
Net Weight	11kg
Gross Weight	12kg