



IP21 All-in-one ESS Series

OCEAN SOLAR



OCE-AIO6016

6kW/16kWh All-in-one ESS Series



IP21 protection



Hybrid on/off-grid modes



<10 ms UPS transfer



Comprehensive protections



Smart App management



Pure sine wave output

Model	OCE-AIO6016
AC Input	
Rated Input Voltage (VAC)	208 / 220 / 230 / 240; L + N + PE
Voltage Range (VAC)	90~280±3 (normal mode); 170~280±3 (UPS mode)
Frequency (Hz)	50 / 60 (Auto Adaptive)
AC Output	
Rated Capacity (kW)	6
Surge Power (kVA)	12
Voltage (VAC)	208 / 220 / 230 / 240
Power Factor (PF)	1
Frequency	50/60Hz±0.1%
Switch Time (ms)	10
Wave Form	Pure Sine Wave
Overload Capacity (Battery Mode)	60s@102%~110%; 10s@110%~130%; 3s@130%~150%; 0.2s@>150%;
Max. Efficiency (Battery Mode)	93%@48VDC
Charger (PV / AC)	
Solar Charger Type	MPPT
Max PVinput current/power	19A+19A/9000W
MPPT Range@Operating Voltage (VDC)	80~520
Max PV Open Circuit Voltage (VDC)	500
Max PV Charge Current (A)	120
Max AC Charge Current (A)	120
Max. Charge Current (PV + AC) (A)	120
Battery	
Rated Voltage (VDC)	51.2
Rated Energy	16KWh(O.5C, 25°C)
UsableEnergy(90%DOD)	16KWh
Max.Charge/Discharge Current	100A/150A
OperationVoltage Range	40.5Vdc~54.5Vd
Operation Temperature	-10°C ~ +50°C
Interface	
HMI	LCD
Interface	RS232 / RS485 / CAN
Monitoring	WiFi (built-in)
General Data	
Ingress Protection	IP21
Operating Temperature	-10 °C- 50 °C
Relative Humidity	5% ~ 95% (Non-condensing)
Storage Temperature	-15 °C- 60 °C
Max. Operating Altitude	4000m (Derating above 1000m)
Product Dimensions (mm)	430mm*481mm*736mm
Packaging Dimensions (mm)	540mm*510mm*895mm
Net Weight (kg)	136 kg
Gross Weight (kg)	153 kg