



OCEAN SOLAR



SINGLE PHASE All-IN-ONE *Hybrid Microinverter*

OCEAONE2.4K Smart Hybrid Microinverter

Hybrid Storage All-in-one Microinverter(HSAM) is one key components of the plug and play storage system which designed for end-users.

HSAM can store excess electrical energy in the Li-battery(2.56kwh-7.68kwh) and release it when needed.

COST-EFFECTIVE

- investment, cuts electricity bills.

EASY TO INSTALL

- DIY-friendly. Also removable for relocation.

PLUG-AND-PLAY

- Plug into socket, start power generation instantly.

SMART ANTI-BACKFLOW

- Protects against reverse current, grid-tied power controllable.

APP REMOTE CONTROL

- Manage via mobile app, adjust settings remotely.

UPS

- Offers 10ms uninterrupted power, ensures seamless operation.

Optimal, Clean, Efficient Energy For Home

Model	OCEAONE2.4K
Rating	2400W
Peak power	4800W
Machine architecture	Bidirectional AC/DC Inverter/Lift Voltage MPPT
Exports	
Rated voltage	220/230/240VAC
Output frequency	50/60Hz±0.1%
Output Waveforms	pure sine wave
THDV%	<2% (linear load) <7% (non-linear loads)
Overload capacity	5 minutes @ 102%~120% rated load 10s@120%~150% rated load 5S@>150% of rated load
Efficiency	
Mains charging (AC-battery)	93%
Battery discharge(battery-AC)	92%
MPPT	99.9%
PV charging efficiency	96%
Input(grid)	
Input Voltage Range	184Vac~253Vac
Input frequency range	48Hz-51Hz
Input power factor	≥0.95
Battery charging	
Charge control method	Precharge, Constant Current, Constant Voltage, Equalisation, Float,Shutdown
Charge Abort Voltage	56.8V / continuously adjustable
Discharge Abort Voltage	44V / continuously adjustable
Charging current	Max. 40A, default 20A
Precharge current	1.5A
Solar charging	
Max.PV Access Power(W)	2400
Max.PV Input Power(W)	1600
PV Open Circuit Voltage	100VDC
PV Operating Voltage Range	10~100VDC
PV Input Current	16Amax
Number of MPPTs	2
PV charging current	0-16A*2
Battery	
Nominal Battery Voltage	51.2Vdc
Normal capacity	2.56KWh
Max. capacity	7.68KWh
Nominal Capacity	50Ah
Max. charge Current	25A
Max. Discharge Current	50A
Operation Voltage Range	44.8Vdc~58.4Vdc
Operation Temperature	-10°C~+50°C
Protection	Overcharge protection, Overdischarge protection,Overcurrent protection, Shortcircuit protection,Overtemperature protection



Ocean Solar

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User interface

APP	Mobile phone APP to manage and control the time and power of grid connection
Communication interface	Switching command interface,RS485,CAN communication

Environmental parameters

Operating temperature	-20~55 °C
Operating humidity	0-98 %(no condensation)
Heat dissipation method	External Fan
Static (in a signal)	<45dB
Protection class	IP65

Structural shape

Sizes	520mm*360mm*345mm
Weight (kg)	40kg



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