

# EcoFlow OCEAN Pro Hybrid Inverter

## Complete Product Datasheets

The EcoFlow OCEAN Pro Hybrid Inverter is a multi-functional hybrid inverter that can be paired with EcoFlow's OCEAN series products to enable household solar self-consumption, economical electricity usage, and off-grid backup power. It can connect to both solar panels and high-voltage DC batteries, as well as—via its built-in Inlet Box—accommodate portable generators, portable power stations, and V2L-enabled electric vehicles. As the PCS with the strongest driving capacity and the most diverse backup power sources on the market, it offers unparalleled flexibility and reliability.

<b>Product</b>	Product Name	EcoFlow OCEAN Pro Hybrid Inverter
	Model Number	EF-PCS-24

<b>System Technical Specifications</b>	Nominal Grid Voltage (Input & Output)	120/240V~ (Split phase) 208Y/120V~, 3W (from 3Ø 4W)
	Grid Type	Split phase
	Frequency	60Hz
	Grid Frequency Range	57Hz~63Hz
	Nominal Output Power (AC)	11.5kW    24.0kW
	Maximum Apparent Power (AC)	11.5kVA    24.0kVA
	Maximum Continuous Output Current (AC)	48A    100A
	Overcurrent Protection Device	60A    125A
	Maximum Continuous Charge Current / Power	100A AC/24kW (5kW per battery)
	Output Power Factor Rating	0.8 leading ~ 0.8 lagging
	Solar to Battery to Home / Grid Efficiency	87%
	Solar to Home / Grid Efficiency	97.5%
	Energy Scalability	Up to 8 OCEAN Pro Batteries (80 kWh) with one Inverter
	Supported Islanding Devices	EcoFlow OCEAN Smart Electrical Panel, EcoFlow OCEAN Meter Backup Switch, EcoFlow OCEAN Gateway
	Connectivity	BLE, Wi-Fi (2.4GHz), Ethernet, Cellular (LTE/4G 5)
	Hardware Interface	1 pair of CAN for batteries, 1 pair of CAN for Inverter parallel, RS485 for Meters, 2 pairs of CAN for Backup Switch or Gateway, 3 pairs of CT connectors. 1 Ethernet port. 1 Emergency Protection Operation (EPO) connector with 2-pins.
	AC Metering	+/-1%
Protections	Isolation Monitor Interrupter (IMI), PV Integrated Arc Fault Interrupter (AFCI), PV Ground Fault Circuit Interrupter (GFCI), PV Rapid Shutdown (RSD) with APsmart/NEP/Tigo, AC Anti-islanding protection	
Load Start Capability	205A LRA (1s)	
Power Scalability	Up to 2 units supported (48kW)	
Type of Couple	AC coupled and DC coupled	
Customer Interface	EcoFlow Mobile APP	
Warranty	15 years	

<b>Solar Technical Specifications</b>	Maximum Solar STC Input	40kW
	Withstand Voltage	600V DC
	PC DC Input Voltage Range	60~550V DC
	PV DC MPPT Voltage Range	60~480V DC
	MPPTs	8 (5kW per channel)
	Maximum Current per MPPT (Imp)	16A
	Maximum Short Circuit Current per MPPT (Isc)	20A

<b>Extend Backup Socket Technical Specification</b>	Connector Type	SS2-50P
	Connect Power Source Type	Portable generator (120V or 240V), Portable power station, EV with V2L
	Input Voltage	120V/240V AC
	Frequency	60Hz
	Maximum Continuous Current	41.6A AC
	Maximum Continuous Power	10kW
	Minimum Continuous Power	300W

<b>Compliance Information</b>	Safety	System: UL 9540 with OCEAN Pro Battery, UL 1741 with MSA PCS: UL 1741, UL 3141, UL 1741 SB, UL 1699B, UL 1998, IEEE 1547, IEEE 1547 (LUMA), IEEE 1547A, IEEE 1547.1, CA Rule No.21, HECO SRD 2.0, CSA C22.2 No. 107.1:16
	Emissions	FCC Part 15B, FCC Part 15C, FCC Part 15E ICES-003, RSS-247
	Environmental	California Proposition 65 TSCA
	Seismic	AC156, IEEE 693-2005 (high)

<b>Environmental Specifications</b>	Operating Temperature	-4°F to 140°F (-20°C to 60°C) >113°F (45°C) Derating
	Operating Humidity (RH)	Up to 100%, condensing
	Storage Temperature	-4°F to 86°F (-20°C to 30°C), up to 95% RH, noncondensing, State of Energy (SOE): 25% initial
	Maximum Elevation	9843ft (3000m)
	Environment	Indoor and outdoor rated
	Enclosure Rating	NEMA 3R
	Ingress Protection (IP) Rating	IP67 (Power Electronics), IP54 (PCS Wiring Compartment)
	Pollution Rating	PD3
	Operating Noise@1m	< 45 dB(A) typical , < 60 dB(A) maximum
Mounting Options	Wall mount	

<b>Mechanical Specifications</b>	Height/inches	43.3in/1100mm
	Width/inches	17.3in/440mm
	Depth/inches	10.3in/216mm
	Weight/lbs	146.6lbs/66.5kg (Top cover not included 3kg/6.6lbs)