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.

Product	Product Name	EcoFlow OCEAN Pro Hybrid Inverter
	Model Number	EF-PCS-24

System Technical Specifications	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

Solar Technical Specifications	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

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

Compliance Information	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)

Environmental Specifications	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

Mechanical Specifications	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)