

EcoFlow OCEAN Pro Hybrid Inverter

Complete Product Datasheets

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

Solar Technical Specifications	
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, UL1741 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)