EcoFlow OCEAN 2 Single-Phase

Up to 6kW AC Output | Up to 12kW PV Input | 2 MPPTs

Designed for Faster, Easier Installation

Easy site selection

Just 196mm deep and 279mm high per battery pack

Save 20+* minutes

Clean, stackable design

* Based on laboratory tests. Actual performance may vary by installation and operating conditions.

Battery That Grows with Your Home and Lasts for Years

- Up to 6 stackable batteries
- 10,000 battery cell cycles for long-term durability

Integrated Backup with Zero-Interruption Switching

- Integrated backup
- 0 ms seamless switchover
- Supports third-party inverter connection on backup side

Intelligent Savings with HEMS

- Intelligent Mode for automated cost savings and solar optimisation
- Supports 500+ dynamic electricity tariffs across Europe
- Open ecosystem for seamless integration

Mix & Match with Full Flexibility

OCEAN 2 is compatible with Gen 1 and Gen 2 battery packs, supporting mixed use within the same system.

All-in-One Control

Easily manage your energy via the app, web, or PowerInsight.

DATASHEET

EcoFlow OCEAN 2 Hybrid Inverter Single-Phase

Technical parameters		EF HD-P1-3K-S2	EF HD-P1-3K68-S2	EF HD-P1-4K6-S2	EF HD-P1-5K-S2	EF HD-P1-5K75-S2	EF HD-P1-6K-S2
DC Input (PV)	Maximum PV Power (W)	9000	9680	10600	11000	11000	12000
	Maximum Input Voltage (V)	600					
	Mppt Voltage Range (V)	90-520					
	Maximum Input Current per MPPT (A)	18 (single PV input), 16 (dual PV input)					
	Maximum Short Circuit Current per MPPT (A)	20					
	Backfeed Current to the PV Array (A)	0					
	Number of MPPTs	2					
	Overvoltage Category	II					
DC Input (Battery)	Rated Voltage (V)	790					
	Maximum Voltage (V)	800					
	Rated Current (A)	7.6					
	Maximum Current (A)	7.6	7.6	7.6	7.6	8.4	8.4
AC Input	Grid Connection	L+N+PE					
	Overvoltage Category	III					
	Rated Input Power (W)	3000	3680	4600	5000	5750	6000
	Maximum Apparent Power (VA)	3000	3680	4600	5000	5750	6000
	Rated Input Voltage (V)	220/230/240, L+N+PE					
	Maximum Input Current (A)	16	19.7	24.6	26.7	30.7	32
	Nominal Frequency (Hz)	50/60					
	Inrush Current (Peak Value/Duration Time) (A)	92@3μs					
AC Output (On-grid)	Grid Connection	L+N+PE					
	Overvoltage Category	III					
	Rated Output Power (W)	3000	3680	4600	5000	5750	6000
	Maximum Apparent Power (VA)	3000	3680	4600	5000	5750	6000
	Rated Output Voltage (V)	220/230/240, L+N+PE					
	Rated Output Current (A)	13.1	16	20	21.7	25	26.1
	Maximum Output Current (A)	15	18.4	23	25	28.8	30
	Nominal Frequency (Hz)	50/60					
	Total Harmonic Distortion (At Rated Power)	≤5%	≤5%	≤3%	≤3%	≤3%	≤3%
	Power Factor	-0.8...1...+0.8					
	Inrush Current (Peak Value/Duration Time) (A)	92@3μs					
	Maximum Output Fault Current (Peak Value/Duration Time) (A)	108@2.8μs					
AC Output (Backup load)	Maximum Output Power (VA)	3000	3680	4600	5000	5750	6000
	Nominal Output Voltage (V)	220/230/240, L+N+PE					
	Nominal Frequency (Hz)	50/60					
	Maximum Output Current (A)	16	19.7	24.6	26.7	30.7	32
	Rated Output Current (A)	13.1	16	20	21.7	25	26.1
	Inrush Current (Peak Value/Duration Time) (A)	92@3μs					
	Maximum Output Fault Current (Peak Value/Duration Time) (A)	108@2.8μs					
Efficiency	Maximum Efficiency	>96%	>96.5%				
	European Weighted Efficiency	>95%	>96%				
Protection	GFCI	Supported					
	AFCI	Supported					
	Insulation Resistance Detection	Supported					
	Anti-Islanding Protection	Supported					
	PV Reverse Polarity Protection	Supported					
	AC Overcurrent Protection	Supported					
	AC Short-Circuit Protection	Supported					
	AC Overvoltage Protection	Supported					
	Protective Class	I					
Compliance	Certificates	CE/CB/DEKRA MARK					
	Safety Standard	IEC/EN62109-1, IEC/EN62109-2					
	Grid-Tied Standards	G98, G99, G100, VDE-AR-N 4105, CEI 0-21, UTE C15-712-1, VDE 0126-1-1, EN 50549-1, C10/11, NTS631, UNE 217001, UNE 217002, PPDS, PTPiREE, PSE, NC RfG, ORDINANCE No.140, NRS 097-2-1					
	EMC	EN/IEC 61000-6-1/2/3/4, IEC 61000-4-16/18/29, IEC 61000-2-2, EN 300328, EN 301489-1, EN 301489-17, EN IEC 62311					
General	Topology	Non-isolated					
	Ingress Protection Rating	IP65					
	Operating Temperature Range (°C)	–20 to 50 (derating when the temperature is above 40 or below 0)					
	Storage Temperature Range (°C)	–30 to 60					
	Operating Humidity	0%-100% (Condensing)					
	Maximum Operating Altitude (m)	3000 (derating above 2000)					
	Weight (kg)	21.5					
	Dimensions (W×D×H) (mm)	679.6×182.7×280 (without IOT & 4G dongle)					
	Noise Emission (dB)	40*					
	Self-Consumption at Night (W)	<30					
	Cooling Method	Natural Convection					
	Communication Method	RS485 & CAN & Wi-Fi & Bluetooth & WAN & 4G					
	Wi-Fi	Frequency Range: 2400 MHz-2483.5 MHz, Maximum Output Power: 17 dBm					
	Bluetooth	Frequency Range: 2400 MHz-2483.5 MHz, Maximum Output Power: 8 dBm					
	Pollution Degree	PD3					
	Environmental Category	Outdoor/Indoor					

* Noise emission value measured under laboratory conditions: ambient temperature 25°C, free-field acoustic environment, measurement position 1m directly in front of the equipment. Actual noise levels may vary depending on load conditions, installation methods and environmental reflection characteristics. This data is only applicable to the declared test conditions.

EcoFlow OCEAN 2 LFP Battery 5kWh

Technical Specifications		EF BD-5-S2	EF BD-10-S2	EF BD-15-S2	EF BD-20-S2	EF BD-25-S2	EF BD-30-S2
Performance	Battery Nominal Capacity (kWh)	5.02	10.04	15.06	20.08	25.10	30.12
	Depth of Discharge	100%					
	Nominal Voltage (V)	400 / 800					
	Operating Voltage Range (V)	360-520 / 720-960					
	Maximum Input Power (400/800) (W) *	2500 / 2500	5000 / 5000	7500 / 7500	10000 / 10000	12000 / 12500	12000 / 15000
	Maximum Output Power (400/800) (W) *	3400 / 3400	6800 / 6800	10200 / 10200	12500 / 13600	12500 / 17000	12500 / 20400
	Battery Cell Type	$LiFePO_4$					
Compliance	Certificates	CE MARK					
	Safety Standard	IEC/EN 62619, IEC/EN 62040-1, IEC/EN 62477-1, ISO 13849-1, VDE-AR-E 2510-50					
	Delivery Standard	UN38.3					
	EMC	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4					
General	Dimension (mm) (base and junction box included; adjustable feet excluded)	679.6×195.6×494.75	679.6×195.6×774.45	679.6×195.6×1054.15	679.6×195.6×1333.85	679.6×195.6×1613.55	679.6×195.6×1893.25
	Weight (kg) (base and junction box included; adjustable feet excluded)	54.6	100.1	145.6	191.1	236.6	282.1
	Installation	Floor Stand: A stack of up to 6 batteries, up to 4 stacks can be connected in parallel					
		Wall Mounted: A stack of up to 3 batteries, up to 4 stacks can be connected in parallel					
	Operating Temperature (°C)	-20 to 55					
	Storage Temperature (°C)	-25 to 60					
	Max. Operating Altitude (m)	3000					
	Cooling Method	Natural convection					
	Relative Humidity	0%-100% (Condensing)					
	IP Rated	IP66					
	Protective Class	I					
	Protection	Over-charge/over-discharge protection, over-voltage/under-voltage protection, over-current protection, short-circuit protection, reverse-polarity protection, temperature protection, thermal-runaway protection, leakage-current protection, insulation protection, over-pressure protection, automatic power-off protection, emergency shutdown					

* Single stack of up to 6 batteries only, excluding scenarios with battery junction box connection.

Follow Us:

Facebook/YouTube/Instagram: @ecoflowtech
LinkedIn: @EcoFlow

Contact Us:

Web: https://homebattery.ecoflow.com/uk
Email: sales.eu@ecoflow.com
Service: solutionservice.eu@ecoflow.com