

EcoFlow PowerOcean (Three-Phase)

Home Solar Battery Solution

Made in china

The innovative 3-phase solar battery solution starting from 5kWh, expandable at all times.

EcoFlow PowerOcean is a premium 3-phase modular home solar solution. With a flexible upfront investment, outstanding safety features, outage backup and super smart control, PowerOcean is designed to achieve power independence for the whole house.



For installers

EcoFlow Pro Web Portal

<https://portal.ecoflow.com/pro/eu>

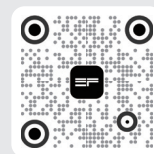


EcoFlow Pro App

For users

EcoFlow Web Portal

<https://portal.ecoflow.com/user/eu>



EcoFlow App

EcoFlow PowerOcean Hybrid Inverter

Technical parameters		EF HD-P3-6K0-S1	EF HD-P3-8K0-S1	EF HD-P3-10K-S1	EF HD-P3-12K-S1
DC Input (PV)	Maximum PV Power (W)	10000	12000	14000	16000
	Maximum Input Voltage (V)	1000			
	MPPT Operating Voltage Range (V)	200-850			
	Start-Up Voltage (V)	160			
	Nominal Input Voltage (V)	600			
	Maximum Power per MPPT (W)	5000	6000	7000	8000
	Maximum Input Current per MPPT (A)	16			
	Maximum Short Circuit Current per MPPT (A)	24			
	Number of Strings per MPPT	1			
	Number of MPPTs	2			
DC Input (Battery)	Overvoltage Category	II			
	Maximum Charging Power (W)	6000	8000	10000	12000
	Maximum Discharging Power (W)	6000	8000	10000	12000
	Maximum Continuous Charging Current (A)	12.5	12.5	12.5	15
	Maximum Continuous Discharging Current (A)	12.5	12.5	12.5	15
	Rated Voltage (V)	800			
	Maximum Battery Capacity (kWh)	45.9			
AC Input	Battery Type	LiFePO4			
	Connection	3L+N+PE			
	Overvoltage Category	III			
	Nominal Apparent Power from Utility Grid (VA)	12000	16000	16000	16000
	Maximum Apparent Power from Utility Grid (VA)	12000	16000	16000	16000
	Rated Input Voltage (V)	230/400, 3L+N+PE			
	Maximum AC Current from Utility Grid (A)	17.4	23.1	23.1	23.1
AC Output (On-Grid)	Nominal Frequency (Hz)	50/60			
	Grid Connection	3L+N+PE			
	Overvoltage Category	III			
	Nominal Apparent Power Output to Utility Grid (VA)	6000	8000	10000	12000
	Maximum Apparent Power Output to Utility Grid (VA)	6000	8000	10000	12000
	Nominal Output Voltage (V)	230/400, 3L+N+PE			
	Nominal Frequency (Hz)	50/60			
	Maximum AC Current Output to Utility Grid (A)	8.7	11.5	14.4	17.4
	Nominal Output Current (A)	8.7	11.5	14.4	17.4
	Current Total Harmonic Distortion (At Rated Power)	<3%			
	Power Factor	-0.8...1...+0.8			

AC Output (Partial Backup)	Nominal Apparent Power (VA)	6000	8000	10000	12000
	Maximum Apparent Power (VA)	7200 for 1 sec.	9600 for 1 sec.	12000 for 1 sec.	14400 for 1 sec.
	Nominal Output Voltage (V)	230/400, 3L+N+PE			
	Nominal Frequency (Hz)	50/60			
	Nominal Output Current (A)	8.7	11.5	14.4	17.4
	Maximum Output Current (A)	10.4 for 1 sec.	13.9 for 1 sec.	17.4 for 1 sec.	20.9 for 1 sec.
Protection	Voltage Total Harmonic Distortion (At Linear Load & Rated Power)	<3%			
	Residual Current Monitoring	Integrated			
	PV Insulation Resistance Detection	Integrated			
	Anti-Islanding Protection	Integrated			
	Method of Active Anti-Islanding	Slip mode Frequency Shift			
	PV Reverse Polarity Protection	Integrated			
	AC Overcurrent Protection	Integrated			
	Backup Load Short-Circuit Protection	Integrated			
	AC Overvoltage Protection	Integrated			
	DC Switch	Integrated			
Efficiency	Remote Shutdown	Integrated			
	Protective Class	I			
	Maximum Efficiency	97.6%			
Compliance	Maximum MPPT Efficiency	99.9%			
	Certificates	CE/CB/TUV MARK			CE MARK
	Safety Standards	IEC/EN62109-1, IEC/EN62109-2			
	Grid-tied Standards	EN 50549, EN50438, TOR Erzeuger Type A, EEA-NE7- CH, PTPIREE, UTE C 15-712-1, ANRE, O3E-323, G99, G98, CEI0-21, C10/11, VDE-AR-N-4105			
	EMC	EN 62311, EN 301 489-1, EN 301 489-17, EN IEC 61000-6-3, EN IEC 61000-3-2, EN 61000-3-3, EN IEC 61000-6-1, EN 300 328			
General Data	Topology	Non-isolated			
	Operating Temperature Range (°C)	-20 to 50			
	Storage Temperature (°C)	-30 to 60			
	Operating Relative Humidity	0%-100% (Condensing)			
	Noise Emission (dB)	<35			
	Maximum Operating Altitude (m)	3000			
	Weight (kg)	Approximately 29.6			
	Dimensions (W×D×H) (mm)	588×175×380 (±1) (without trim cover), 588×175×455 (±1) (with trim cover)			
	Protection Level	IP65			
	Self-Consumption at night (W)	<25			
	Cooling Method	Natural convection			
	Communication Method	RS485 (for Meter) & CAN (for BMS) & Wi-Fi & Bluetooth & WAN & 4G			
	Wi-Fi Frequency Range (MHz)	2412-2472 (20) / 2422-2462 (40),			
	Maximum Output Power (dBm)	18.54			
	Bluetooth Frequency Range (MHz)	2402-2480,			
	Maximum Output Power (dBm)	7.19			
	Pollution Degree	PD3			
	Environmental Category	Outdoor/Indoor			

Please be advised that EcoFlow reserves the right to modify the design, components, and specifications of its products at any time without prior notice or obligation. The actual product details and final design may vary from those shown or described in this brochure.