

Home Solar Battery Solution

EcoFlow PowerOcean Plus Three-Phase 15/20/25/29.9kW

Unlock the Full Potential of Solar





EcoFlow PowerOcean Plus Three-Phase 15/20/25/29.9kW

Unlock the full Potential of Solar

Up to 29.9kW AC Output to Achieve Reliable Power Independence

The EcoFlow PowerOcean Plus achieves energy independence with 29.9kW AC output, maximising your entire home's solar usage. You can even run your home completely on solar all at once.

Flexible Deployment Tailored for Multiple Scenarios

Adaptable to various environments and applications, from large family homes to small commercial locations, like farms. Mount PowerOcean Plus on the wall or floor, indoors and out. Designed to fit any roof panel layout, even asymmetric ones.



**House or
Commercial**

**Floor-mount or
Wall-mount**

**Indoor or
Outdoor**



Experience Reliable Energy Independence with Smart Ecosystem Management

DYNAMIC TARIFF SUPPORTED

AC Plug Temperature Monitoring

Real-time temperature sensing at the AC plug enables early detection of potential risks. If overheating is detected, the system automatically adjusts power output and activates protection to ensure safer operation.

Seamless Whole-Home Backup

Ensure uninterrupted energy supply with rapid switching and robust 29.9kW capacity.

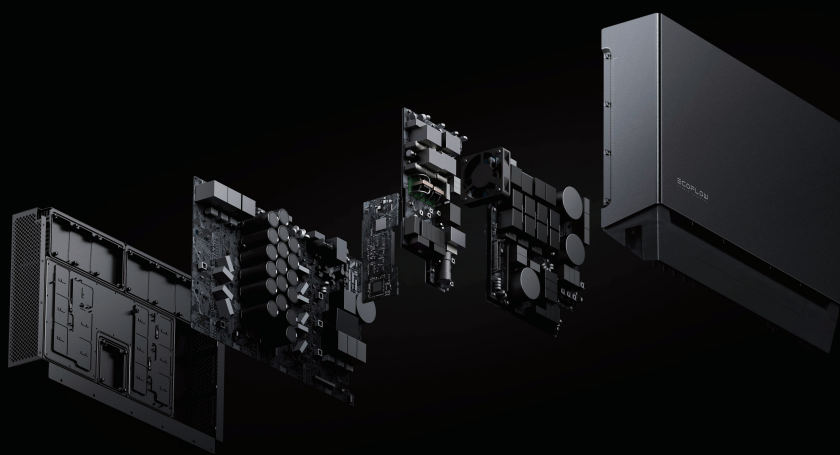
Unified Home Power, Simplified Control

Smartly track power usage, solar input, and battery storage in real time with just one app for your solar storage system, EV charger and more. Prioritize solar energy, automatically charging your battery with excess energy for nighttime use

Integrated With Dynamic Tariff

The dynamic tariff empowers you by granting access to your chosen dynamic pricing platform. Featuring real-time 24-hour tariff pricing, this dashboard enables users to strategically plan their energy purchases, ensuring they capitalise on the most economical rates available.





PowerOcean Plus Inverter

Power Everything All at Once, Now With Solar

29.9kW

AC output

40kW

PV input

3 MPPT

With 4 strings

3 × Performance

Cascading support



Safe, Reliable Power

IP65&IP66* Weather Proof

The IP65&IP66 certification ensures it stands strong against dust ingress and is resistant to different pressure water jets from any direction.

*For more details, please refer to the parameter table.

Industry-leading Lightning Protection

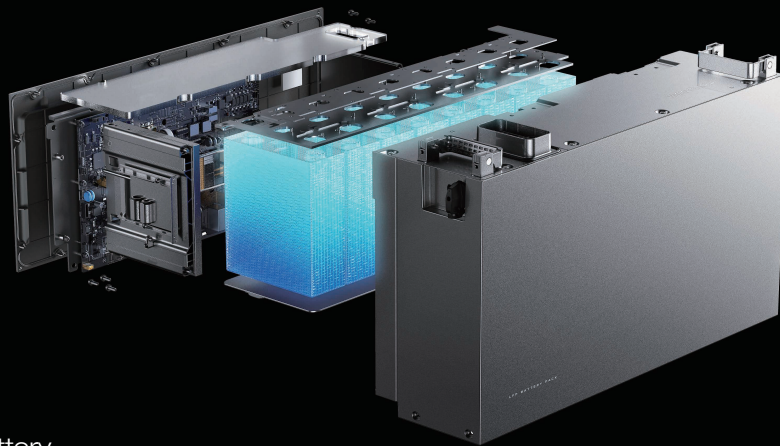
Designed to shield your system from electrical surges and ensure uninterrupted performance, our advanced technology safeguards your investment and provides peace of mind, even in the most extreme weather conditions.

Over-temperature Protection

Our advanced over-temperature protection system actively monitors and regulates internal temperatures, preventing overheating and ensuring consistent performance.

AFCI Protection

AFCI protects the branch circuit wiring from dangerous arcing faults that could initiate an electrical fire.



PoweOcean LFP Battery

LFP Performance, Beautifully Powered

5 kWh/8 kWh

Up to 96kWh per system

10,000+

Cell Cycles Life

0.8C^{*}

Maximum Discharging Power

15 Years^{*}

Official Warranty

^{*} 10-Year compulsory warranty and a 5-year optional extended warranty for the OCEAN 2 8kWh LFP Battery.

^{**} For more details, please refer to the parameter table.

All-Round Safety, Long-Term Peace of Mind

6 Layers Passive Protection

- Aerogel thermal insulation
- FPC short-circuit protection
- Thermal and fire-resistant insulation
- Built-in fire prevention module
- Explosion-proof pressure relief valve
- Full die-cast aluminum alloy enclosure

4 Layers Active Protection

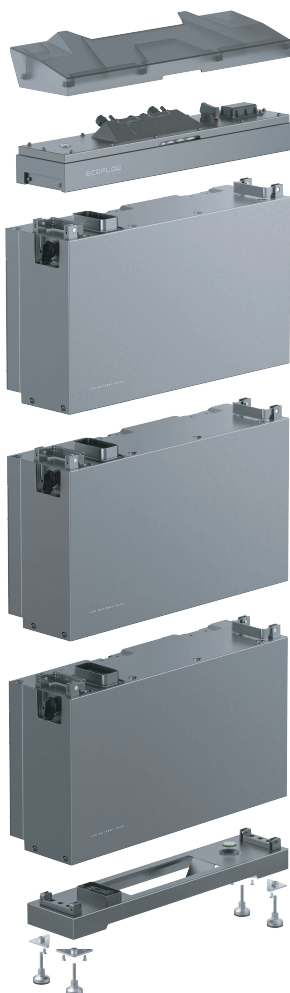
- NTC temperature monitoring
- AFE chip built into the BMS
- Multi-MOS Active Balancing
- Cloud-based BMS early warning system





Effortless Installation with a Built-in Smart Meter

Simplified setup with a user-friendly design featuring a plug-and-play battery, integrated wiring and a built-in smart meter to achieve cable-free metering.



Rear & front Stackable Battery Design

For flexible installation and scalable energy expansion.

Built-in Smart Meter

Removes the need for an extra meter setup, saves at least 50 minutes of installation time.

Plug-and-play Design

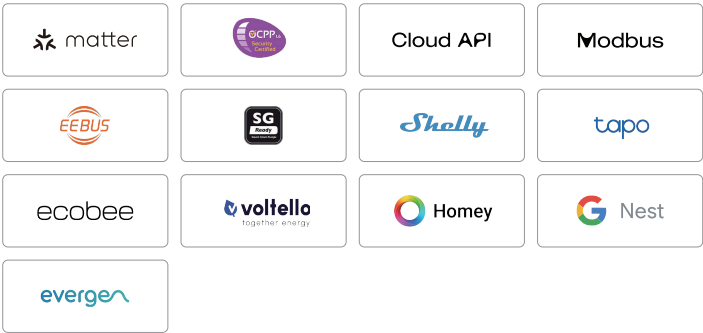
Battery design for quick integration.

Streamlined Wiring

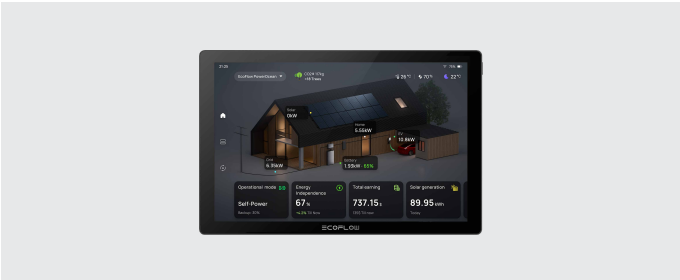
For easy installation.

Open Ecosystem. Total Home Energy Control.

The EcoFlow Home Energy Ecosystem connects solar, battery storage, EV charging, and other smart home devices into one seamless platform, giving homeowners complete visibility and control over how energy is generated, stored, and used. EcoFlow works with a variety of smart home platforms and protocols to deliver the ultimate seamless smart home energy experience.



Accessories



EcoFlow PowerInsight 2 Monitor

11-inch HD display tracks power flow and unifies smart home control. Matter 1.4 compatible with Google Nest & major brands for effortless connected living.

EcoFlow App and Web Portal

EcoFlow App and Web Portal for End-Users

- Intuitive power flow monitoring
- Say goodbye to high energy bills with Self-Powered Mode
- Viewing power generation and consumption data through an application
- Customise the system's working mode and parameters



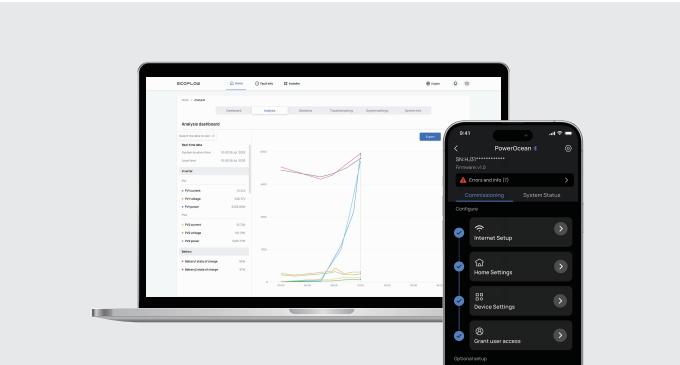
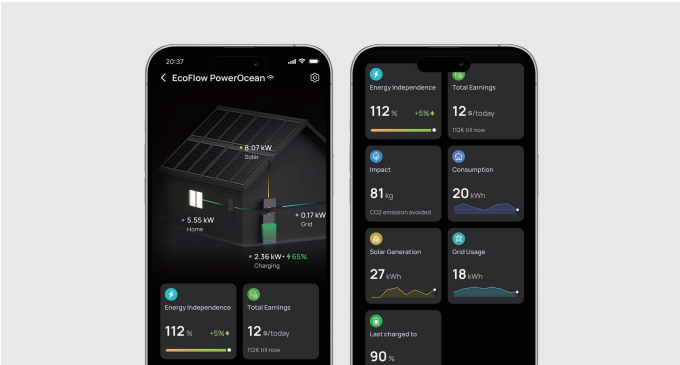
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EcoFlow Pro App and Web Portal for Installers

- Ultra-fast 3-step commissioning process
- Comprehensive map view of authorised systems
- Comprehensive and detailed data to assist you in system fault analysis



Scan QR code to download



*All specifications and descriptions shown may differ from the actual specification of the product. EcoFlow reserves the right to make changes and amendments to the product shown and described here at any time without prior notice of such change. All functionality, features, specifications, design and other product information displayed in this webpage including, but not limited to, components, performance, availability, and capabilities of the product are subject to change without notice. The contents and simulated images within the screen are for demonstration purposes only.

EcoFlow PowerOcean Plus Hybrid Inverter

Technical parameters		EF HD-P3-29K9-S1	EF HD-P3-25K0-S1	EF HD-P3-20K0-S1	EF HD-P3-15K0-S1
PV1 Input	Max. Input Power (W)	20000	20000	15000	10000
	Input Voltage Range (V)	160-1000			
	MPPT Operating Voltage Range (V)	200-850			
	Start-up Voltage (V)	160			
	Nominal Input Voltage (V)	620			
	Max. Input Current per MPPT (A)	16×2			
	Max. Short Circuit Current per MPPT (A)	19×2			
	Number of Strings per MPPT	2			
	Number of MPP Trackers	1			
	Overvoltage Category	II			
PV2/PV3 Input	Max. Input Power (W)	10000			
	Input Voltage Range (V)	160-1000			
	MPPT Operating Voltage Range (V)	200-850			
	Start-up Voltage (V)	160			
	Nominal Input Voltage (V)	620			
	Max. Input Current per MPPT (A)	16			
	Max. Short Circuit Current per MPPT (A)	24			
	Number of Strings per MPPT	1			
	Number of MPP Trackers	1			
	Overvoltage Category	II			
PV Input (PV1+PV2+PV3)	Max. Input Power (W)	40 000	40 000	35 000	30 000
Battery Input	Nominal Battery Voltage (V)	800			
	Max. Continuous Charging Current (A)	40	33.3	26.6	20
	Max. Continuous Discharging Current (A)	40	33.3	26.6	20
	Max. Charging Power (W)	29900	25000	20000	15000
	Max. Discharging Power (W)	29900	25000	20000	15000
	Maximum Battery Capacity (kWh)	61.2			
AC Input (On-grid)	Nominal Input Voltage (V)	230/400, 3L+N+PE			
	Nominal Apparent Power from Utility Grid (VA)	43470			
	Max. Apparent Power from Utility Grid (VA)	43470			
	Max. AC Current from Utility Grid (A)	63			
	Nominal AC Grid Frequency (Hz)	50			
	Overvoltage Category	III			
AC Output (On-grid)	Nominal Apparent Power Output to Utility Grid (VA)	29900	25000	20000	15000
	Max. Apparent Power Output to Utility Grid (VA)	29900	25000	20000	15000
	Nominal Output Voltage (V)	230/400, 3L+N+PE			
	Nominal AC Grid Frequency (Hz)	50			
	AC Grid Frequency Range (Hz)	45-52			
	Nominal Output Current (A)	43.3	36.2	29	21.7
	Power Factor	0.8 leading ~ 0.8 lagging			
	Inrush Current	<120% of the nominal AC current for a maximum of 1 s			
	Current Total Harmonic Distortion (@Rated Power)	≤3%			
	Overvoltage Category	III			
AC Output (Backup)	Nominal Apparent Power (VA)	29900	25000	20000	15000
	Max. Output Apparent Power (VA)	35880 for 1 sec	30000 for 1 sec	24000 for 1 sec	18000 for 1 sec
	Nominal Output Current (A)	43.3	36.2	29	21.7

AC Output (Backup)	Max. Output Current (A)	52 for 1 sec	43.4 for 1 sec	34.8 for 1 sec	26 for 1 sec
	Nominal Output Voltage (V)	230/400, 3L+N+PE			
	Nominal Output Frequency (Hz)	50			
	RD Load (kW)	1.65			
	Voltage Total Harmonic Distortion (@Linear Load & @Rated Power)	≤3%			
Efficiency	Max. Efficiency	98.0%			
	European Efficiency	97.0%			
	Max. MPPT Efficiency	99.9%			
Compliance	Certificates	RCM MARK			
	Safety Standards	IEC/EN 62109-1, IEC/EN 62109-2			
	Grid-tied Standards	VDE-AR-N-4105, TOR Erzeuger Typ A, EN 50549, PTPIREE, G99, TF 3.3.1 (B1.2 for type A), CEI 0-21, C10/11, UNE, NTS, AS/NZS 4777.2			
	EMC&RF	EN 301 489-1, EN 301 489-3, EN 301 489-17, EN 300 328, EN 301 893, EN 300 440, EN IEC 61000-6-1, EN IEC 61000-6-2, EN IEC 61000-6-3, EN IEC 61000-6-4, EN 61000-3-11, EN 61000-3-12, EN IEC 62311, EN 62311, EN 50665			
Protection	AFCI	Yes			
	PV Insulation Resistance Detection	Yes			
	Residual Current Monitoring	Yes			
	PV Reverse Polarity Protection	Yes			
	Anti-islanding Protection	Yes			
	AC Overcurrent Protection	Yes			
	Backup Load Short Circuit Protection	Yes			
	AC Overvoltage Protection	Yes			
	DC Switch	Yes			
	Remote Shutdown	Yes			
	Protective Class	I			
	DC Surge Protection	Type II			
	AC Surge Protection	Type II			
General	Cascading	Up to 180kWh battery capacity ^{*1}			
	Operating Temperature Range (°C)	-20 to 50			
	Relative Humidity	0-100%			
	Max. Operating Altitude (m)	3000			
	Cooling Method	Intelligent air cooling			
	User Interface	LED indicator, EcoFlow app			
	Communication Method	RS485 (for meter) & CAN (for BMS) & Wi-Fi & Bluetooth & WAN & 4G			
	Wi-Fi Frequency Range (MHz)	2.4GHz: 2412-2472, 5GHz: 5180-5700, 5745-5825			
	Maximum Output Power (dBm)	<20			
	Bluetooth Frequency Range (MHz)	2402-2480			
	Maximum Output Power (dBm)	<8			
	Weight (kg)	Approx. 41			
	Dimension (W×D×H mm)	636×235×498 (±1) (with trim cover) 636×235×419 (±1) (without trim cover)			
	Noise Emission (dB)	<45 ^{*2}			
	Topology	Non-isolated			
	Self-consumption at Night (W)	<20.5			
	Ingress Protection Rating	IP65			
	Environmental Category	Outdoor/Indoor			
	Pollution Degree	PD3			
	Storage Temperature (°C)	-30 to 60			
	Mounting Method	Wall Mounted			
	Country of Manufacture	China			

^{*1} For a total battery capacity of 180kWh, 3 hybrid inverters are required. One hybrid inverter can support a maximum of 60kWh.

^{*2} 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 PowerOcean LFP Battery

Number of Battery Packs		EF BD-5.1-S1 EF BD-B-S1	EF BD-10.2-S1 EF BD-B-S1	EF BD-15.3-S1 EF BD-B-S1	EF BD-20.4-S1 EF BD-B-S1
Performance	Battery Nominal Capacity	5.1	10.2	15.3	20.4
	Battery Usable Capacity(kWh)*1 (95% Depth of Discharge)	4.8	9.7	14.5	19.4
	Max. Discharge Power (W)	3300	6600	9900	13200
	Max. Charge Power (W)	2500	5000	7500	10000
	Nominal Voltage(V)	800			
	Operating Voltage Range(V)	720-960			
	Battery Short Circuit current (A)	200A for 300 us	400A for 300 us	600A for 300 us	800A for 300 us
	Battery Maximum Discharge Current (A)	4.4	8.8	13.2	17.6
	Battery Maximum Charge Current (A)	3.3	6.6	9.9	13.2
	Rated DC Power (kW)	Discharge: 3.3 Charge: 2.5	Discharge: 6.6 Charge: 5.0	Discharge: 9.9 Charge: 7.5	Discharge: 13.2 Charge: 10
	BatteryCell Type	LiFePO ₄			
Performance	Certicates	RCM MARK			
	Safety Standard	IEC 62619, IEC 62040-1, IEC 62477-1, ISO 13849			
	Delivery Standard	UN38.3			
	EMC	IEC 61000-6-1/3			
General	Dimension (mm)	680x183x424(±1)	680x183x848 (±1)	680x183x1272(+1)	680x183x1696(+1)
	Weight (kg)	55.5	111	166.5	222
	Installation	Floor Stand: A stack of up to 4 batteries Wall Mounted: A stack of up to 3 batteries			
	Operating Temperature (°C)	-20 to 50			
	Max. Operating Altitude (m)	3000			
	Communication Method	CAN			
	Cooling Method	Natural Convection			
	Noise Emission (dB)	≤35*2			
	Relative Humidity	0%-100% (Condensing)			
	Active Aerosol Fire Prevention Module	Integrated			
	Protection Level	IP65			
	Protective Class	I			

*1 To maintain optimal battery performance in low-temperature environments, the depth of discharge (DoD) may vary with actual temperature. This is a normal fluctuation.

*2 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

Technical parameters		EF OCEAN 2 LFP Battery 8kWh EF BD-8-S2A	EF OCEAN 2 LFP Battery 5kWh EF BD-5-S2
Performance	Battery Nominal Capacity(kWh)	8.03	5.02
	Battery Usable Capacity(kWh) ¹	8.03	5.02
	Battery Cell Type	LiFePO ₄	LiFePO ₄
	Nominal Charging Power(kW)	4.1	2.5
	Nominal Discharging Power(kW)	4.1	3.4
	Maximum Discharging Power ¹ (kW) ²	6.4	4.08
	Nominal Voltage(V)	400 / 800	400 / 800
	Operating Voltage Range(V)	360-520 / 720-960	360-520 / 720-960
General	Dimension(WxDxH)(mm)	680 x 196 x 378	680 x 196 x 279
	Weight(kg)	67.5	46
	Installation	Floor Stand: A stack of up to 5 batteries Wall Mounted: A stack of up to 3 batteries	Floor Stand: A stack of up to 6 batteries Wall Mounted: A stack of up to 3 batteries
	Operating Temperature ² (°C) ³	-20~ 55	-20~ 55
	Storage Temperature(°C)	-25~ 60	-25~ 60
	Max. Operating Altitude ³ (m) ⁴	3000	3000
	Relative Humidity	0% ~100%	0% ~100%
	Cooling Method	Intelligent Air Cooling	Natural Cooling
	Ingress Protection Rating	IP66	IP66
	Anti-theft	Supported	Supported
	Battery Heating	Supported	Supported
	Communication method	CAN	CAN
	Country of Manufacture	China	China
	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,Water Ingress Detection	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
Compliance		IEC/EN 62619, IEC/EN 62040-1, IEC/EN 62477-1, ISO 13849-1, EN IEC 61000-6-1, EN IEC 61000-6-2, EN IEC 61000-6-3, EN IEC 61000-6-4, UN 38.3, SA TS 5398	IEC/EN 62619, IEC/EN 62040-1, IEC/EN 62477-1, ISO 13849-1, EN IEC 61000-6-1, EN IEC 61000-6-2, EN IEC 61000-6-3, EN IEC 61000-6-4, UN 38.3
1. Test conditions: 100% depth of discharge, 0.2C rate charge & discharge averagely at 25°C, at the beginning of life. 2. In a laboratory environment at 25°C ambient and device temperature with PowerOcean Plus Three-Phase Hybrid Inverter, the discharge time at this power is no more than 30 minutes for Ocean 2 LFP 8kWh and 20 minutes for Ocean 2 LFP 5kWh. Under different usage conditions, actual performance may vary. 3. Power may be derated when the temperature exceeds 40°C. 4. Power may be derated above 2000 m.			

Contact EcoFlow



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