

Solar Battery Solution For House

EcoFlow PowerOcean

Innovation for Easy Power Independence



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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. Featuring flexible upfront investment, outstanding safety, outage backup and super smart control, the solution is designed to achieve power independence for the whole house.



Garage



Outdoor



Basement

What makes PowerOcean special?

800V

800V high-voltage battery, 1 pack to start a 3-phase inverter.

45kWh

Easy battery expansion anytime, up to 45kWh capacity.

15-year

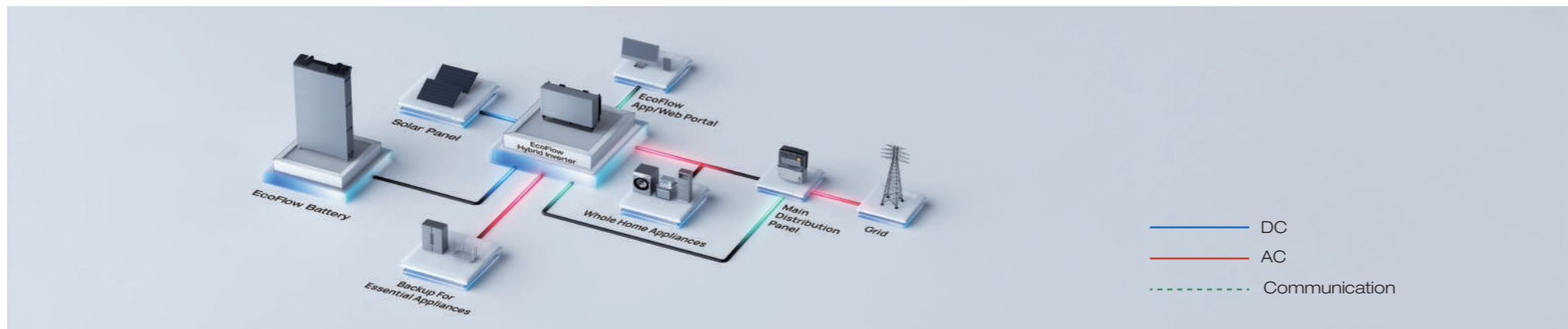
CATL LFP battery with industry-leading 15-year warranty.

10kW

10kW 3-phase backup power.

IP65

Battery auto-heating in winter, and IP65.



EcoFlow PowerOcean LFP Battery

The innovative 800V high-voltage LFP battery with outstanding safety and performance

EcoFlow PowerOcean LFP Battery is a parallel connected high voltage battery system, compatible with our 3-phase hybrid inverter. You can flexibly start from only 1 battery of 5kWh, and expand at your will at all times. With CATL's LFP battery chemistry, active and passive safety measures, we provide outstanding battery reliability and performance.

5kWh each pack

expandable to up to 45kWh

6,000+*

life cycles

15

years of warranty

CATL

LFP battery



*6,000+ life cycle till degradation to 70%.



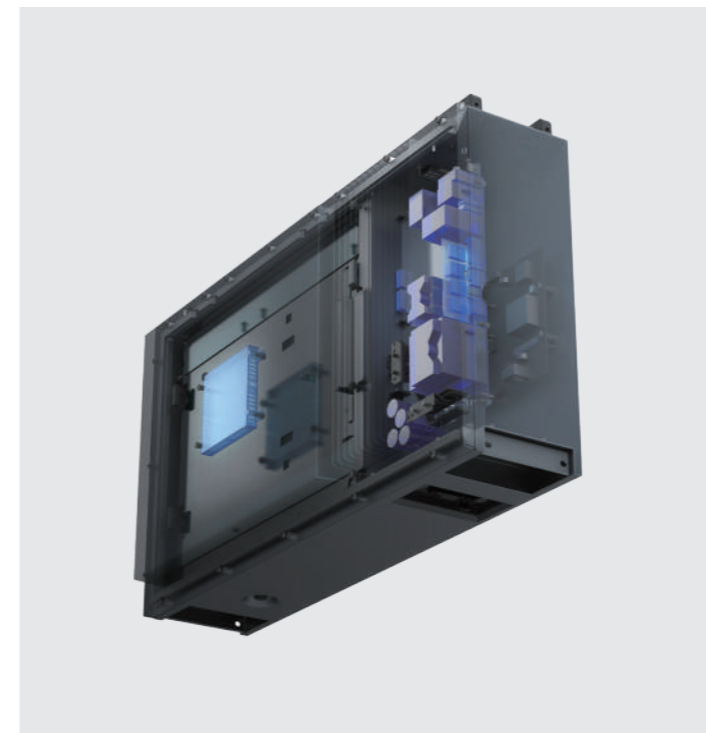
Flexible investment starting from only 1 pack, with 800V high voltage battery

- Built-in DC-DC converter in each battery pack: independent conversion between 48V and 800V, allowing our 3-phase hybrid inverter to simply operate with only one pack.



Easy battery expansion at all times, up to 45kWh capacity

- Advanced paralleled connection: the new battery is perfectly compatible with existing units.



Enhanced Safety and Reliability

Integrated BMS module for hazard isolation

- Each battery has its own integrated BMS module, preventing any malfunctions from affecting the rest.
- TI automotive-grade BMS chip is integrated into every battery pack.

Fire proof

- With our active fire protection module integrated into the system, you can rest easily knowing your home is protected in case of over 170°C.

Weather Proof: Battery Auto-heating and IP65

- Each pack is equipped with auto-heating modules to work smoothly during winter.
- The entire system has IP65 protection.

EcoFlow PowerOcean Hybrid Inverter

The 3-phase hybrid inverter with 10kW backup power

The EcoFlow PowerOcean Hybrid Inverter enables highly efficient solar energy usage and storage to achieve your home power independence. The 3-phase inverter is integrated with backup module, offering up to 10kW output to power almost every essential appliance in case of any grid outage.

10kW output power

Up to 10kW output power, getting all essential home appliances backed up at once, including washing machines, dish washers, oven, etc.

3-phase

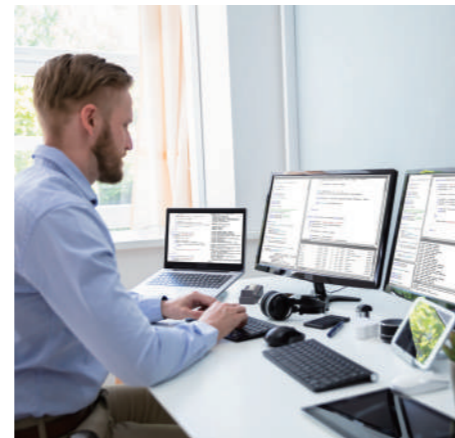
Support your 3-phase appliances during outage.



Kitchen Appliances



Washing Machines



Home Office



Bypass circuit to secure stable power supply

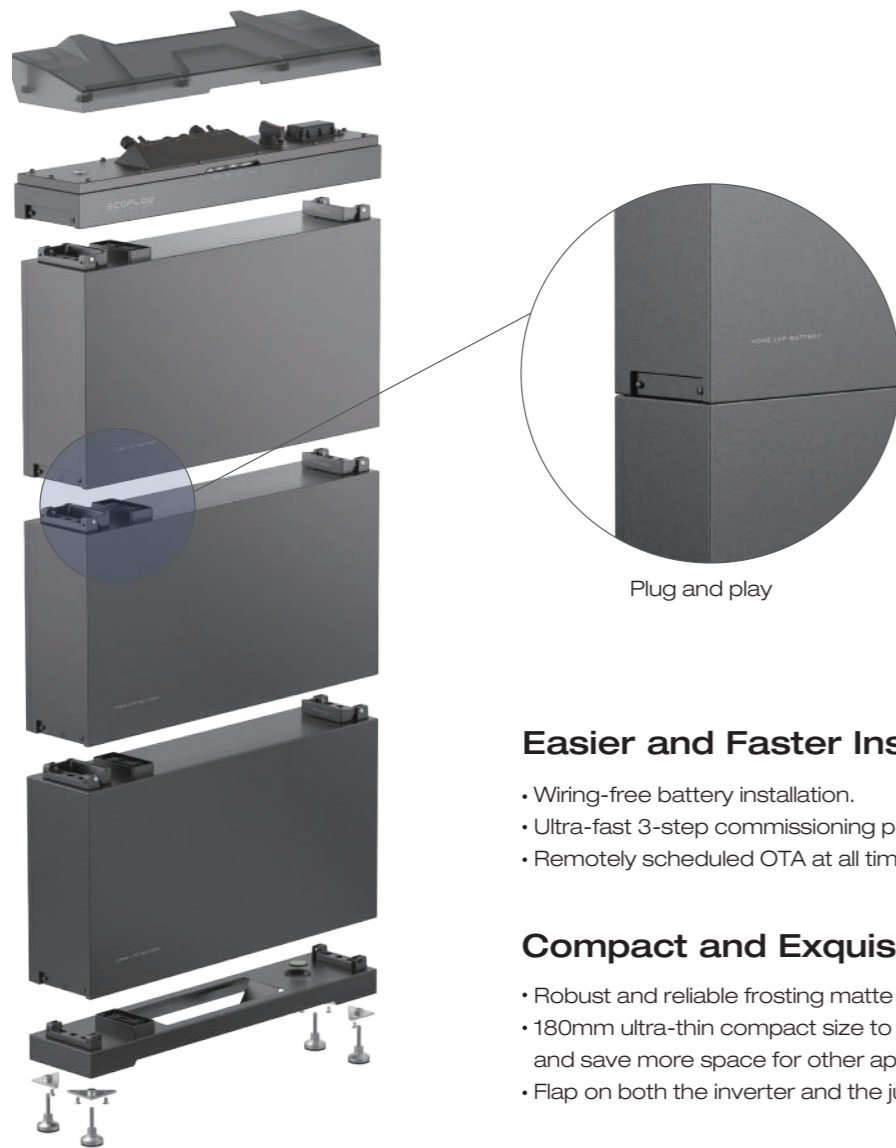
If the inverter detects dysfunction, it will switch to the bypass mode, allowing grid power to flow through instead.

Remotely scheduled OTA updates anytime

Without interrupting the power system.

Smart heat pump supported through SG Ready (Smart Grid Ready)

For a heat pump with SG Ready control input, PowerOcean can distribute excess solar power for heating, further maximizing your home power independence.



Plug and play

Easier and Faster Installation

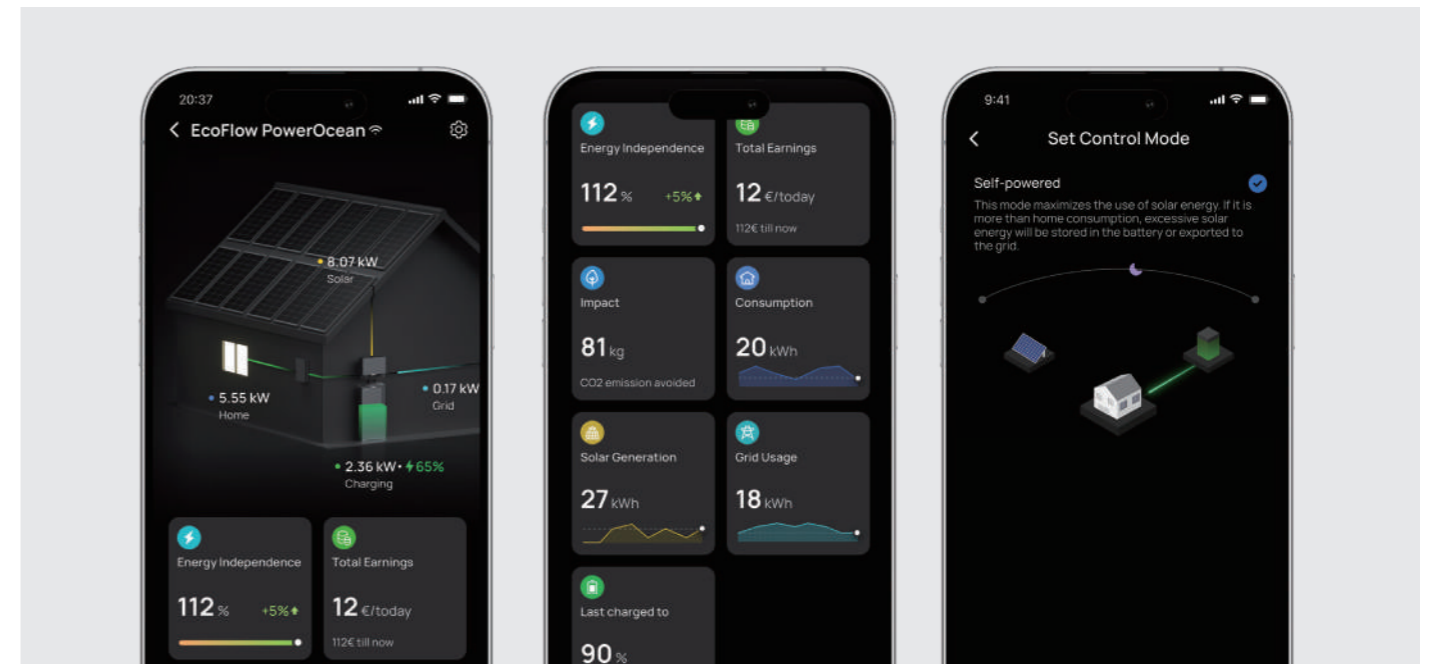
- Wiring-free battery installation.
- Ultra-fast 3-step commissioning process.
- Remotely scheduled OTA at all times.

Compact and Exquisite Design

- Robust and reliable frosting matte metal material.
- 180mm ultra-thin compact size to neatly fit in the basement or garage, and save more space for other appliances.
- Flap on both the inverter and the junction box to hide cables.

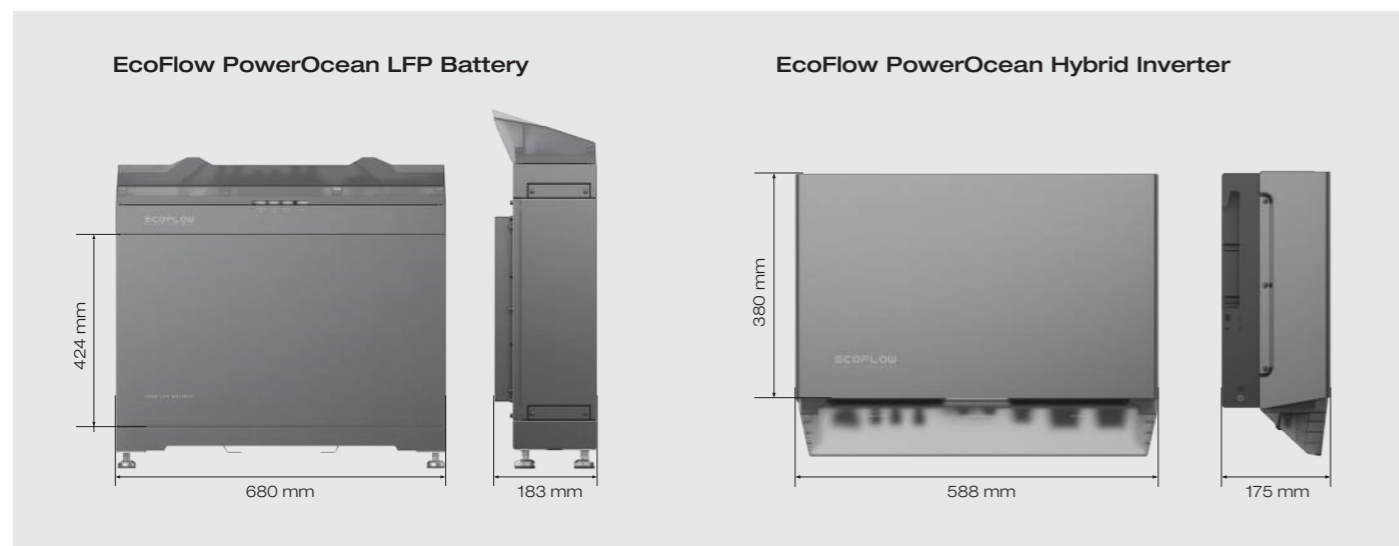
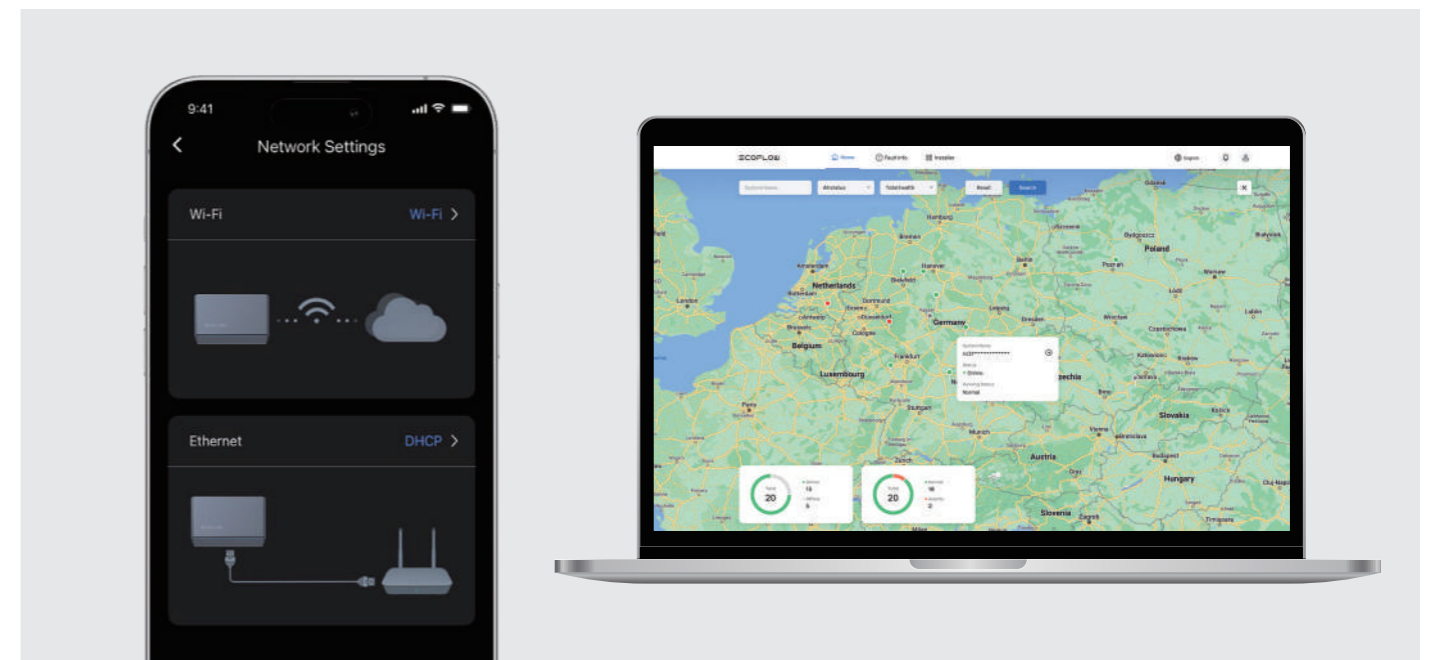
For Users: EcoFlow APP and Web Portal

- Intuitive power flow monitoring.
- Personalize with intuitive widgets.
- Say goodbye to high energy bills with Self-powered Mode.
- Always prepared for grid outages.



For Installers: EcoFlow Pro APP and Web Portal

- Ultra-fast 3-step commissioning process.
- Comprehensive map view of authorized systems.
- Easy Troubleshooting .
 - Proritize error codes according to emergency level.
 - Know the error code in detail.



EcoFlow PowerOcean LFP Battery Technical Parameters



Number of battery packs		LFP Battery x 1	LFP Battery x 2	LFP Battery x 3
Performance	Battery module capacity	5.1kWh	10.2kWh	15.3kWh
	Max. output power	3.3kW	6.6kW	9.9kW
	Max. input power	2.5kW	5kW	7.5kW
	Nominal voltage	800V		
	Operating voltage range	720-960V		
	Battery cell type	LFP		
Compliance	Certificates	IEC/EN62477, IEC/EN62619 (EN ISO 13849), UN 38.3		
General specification	Dimension (W*H*D)	680*612*183mm	680*1009*183mm	680*1406*183mm
	Power module weight	65.6kg	120.9kg	176.2kg
	Installation	Floor stand		
	Operating temperature	-20°C~50°C		
	Max. operating altitude	3000m		
	Cooling method	Natural convection		
	Relative humidity	0~100% RH		
	Protection level	IP65		

EcoFlow PowerOcean Hybrid Inverter Technical Parameters

Technical parameters		EF HD-P3-8K0-S1	EF HD-P3-10K-S1
Input (PV)	Maximum PV power	12 kW	14 kW
	Maximum input voltage	1000V DC	
	Operating voltage range	180~1000V DC	
	Rated input voltage	600V	
	Start voltage	180V	
	Maximum input current per MPPT	16A	
	Maximum short circuit current	24A	
	Number of MPPTs	2	
	OVC	II	
Input (Battery)	Maximum charging power	8kW	10kW
	Maximum discharging power	8kW	10kW
	Rated voltage	800V	
	Rated current	12.5A	
	Maximum battery capacity	45kWh	
Output (On-grid)	Grid connection	3W/N+PE	
	OVC	III	
	Rated output power	8kW	10kW
	Maximum apparent power	8kVA	10kVA
	Rated output voltage	220Va.c./380Va.c., 230Va.c./400Va.c., 3W/N+PE	
	Nominal output current	11.5A	14.4A
	Matchable grid frequency value	50/60Hz	
	Power Factor	0.8 leading - 0.8 lagging	
Output (Backup load)	Rated output power	8kW	10kW
	Rated output voltage	220Va.c./380Va.c., 230Va.c./400Va.c., 3W/N+PE	
	Maximum output current	17.3A	17.3A
	Nominal Output Current	11.5A	14.4A
		THD	≤3%
Compliance	Safety standard	IEC/EN62109-1, IEC/EN62109-2	
	Grid-tied standards	VDE-AR-N 4105, TOR Erzeuger Type A, EN 50549-1, EEA-NE7 - CH	
	Protective class	I	
General specification	Operating temperature range	-20°C~50°C	
	Operating humidity	0~100% RH	
	Maximum operating altitude	3000m	
	Weight	29.5kg	
	Dimensions	588*380*175mm	
	IP level	IP65	
	Self-consumption at night	<20W	
	Cooling method	Natural convection	
	Communication method	RS485 & CAN & Wi-Fi & WAN & 4G	



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