

DATASHEET

EcoFlow PowerOcean DC Fit

Retrofit Battery Storage Solution

An easy and unique PV-coupled retrofit battery storage solution for houses with a solar system. By seamlessly integrating up to 15kWh of battery storage into your home solar system, the EcoFlow PowerOcean DC Fit empowers users to achieve energy self-sufficiency easily and cost-effectively.



No additional storage inverter is needed

Seamlessly adding battery storage to your existing solar system without installing an additional storage inverter.

No need to replace the existing solar inverter

Investing less to store more solar power.

No need to change the AC wiring

Significantly reducing installation time.

No on-grid permit required

Saving weeks of waiting time for on-grid permit applications*.

*Notifying the power provider of this change is advised. Regulations may vary region to region.

For installers

EcoFlow Pro App



EcoFlow Pro Web Portal

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

For users

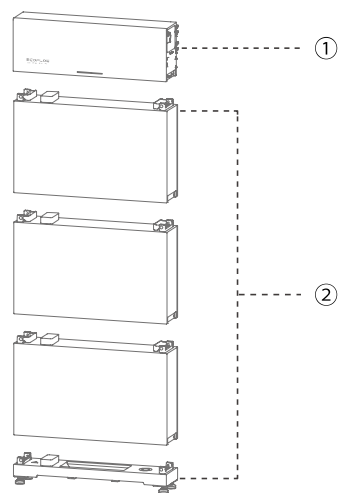
EcoFlow App



EcoFlow Web Portal

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

Technical Parameters



① EcoFlow PowerOcean PV Storage Converter

Model	
Model	EF PD-5-S1
DC Input (PV)	
Max. Input Charging Power	5kW (2.5kW per string)
Max. Input Voltage (Absolute Maximum)	1000V
Operating Voltage Range	150V-800V
Max. Input Current	20A per string
Isc PV (Absolute Maximum)	21A per string
DC Output (Inverter side)	
Supported Solar Inverter Type	Single phase / Three phase
Bypass Power	15kW per string
Max. Output Voltage	1000V
Operating Output Voltage Range	150V-800V
Max. Output Current	20A per string
Battery Port	
Battery Discharging Voltage Range	800V-900V
Max. Discharging Current	6.5A
Max. Discharging Power	5.2kW*
Battery Charging Voltage Range	800V-900V
Max. Charging Current	6A
Max. Charging Power	4.8kW*

* The value of maximum discharging power and maximum charging power are measured with 3 battery packs installed.

Protection	
Direct Current Insulation Resistance Testing	✓
PV Input Reverse Polarity Protection	✓
Direct Current Switch	✓
Overcurrent Protection	✓
Overvoltage/Undervoltage Protection	✓
Low/High Temperature Protection	✓

General	
Protective Class	I
Overvoltage Category (OVC)	II (PV)
Converter Dimensions (W×D×H)	680×201×230 mm (±1 mm)
Converter Weight	18.5 kg (±0.5 kg)
Installation	Floor Stand
Operating Temperature	−20°C to 50°C (−4°F to 122°F)
Operating Relative Humidity	4%~100% (Condensing)
Operating Altitude	≤3000 m
IP Rating	IP65
Noise Level	≤35 dB
Communication Method	Ethernet, Wi-Fi, Bluetooth, RS485
Cooling Method	Natural convection
Pollution Degree	2
Environmental Category	Outdoor & Indoor

Compliance	
Certificates	CE, CB, TUV Mark, RoHS
Safety Standard	IEC/EN62109-1
EMC	ETSI EN 300 328 V2.2.2 EN IEC 62311:2020 ETSI EN 301 489-1 V2.2.3 ETSI EN 301 489-17 V3.2.4 EN IEC 61000-6-1 EN IEC 61000-6-3

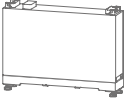
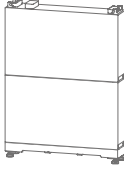
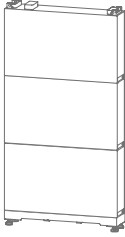
② EcoFlow PowerOcean LFP Battery Pack

Model	
Model	Battery pack: EF BD-5.1-S1 Battery base: EF BD-B-S1

Performance	
Nominal Voltage	800V

Operating Voltage Range	720V-960V
Cell Type	LFP

Number of Battery Packs

Number of Battery Packs			
	EF BD-5.1-S1 × 1 EF BD-B-S1 × 1	EF BD-5.1-S1 × 2 EF BD-B-S1 × 1	EF BD-5.1-S1 × 3 EF BD-B-S1 × 1
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
Dimensions (W×D×H) *Without Adjustable Feet	680×452×183 mm	680×849×183 mm	680×1246×183 mm
Power Module Weight	Battery pack: 55.5 kg Battery base: 3.7 kg	Battery pack: 111 kg Battery base: 3.7 kg	Battery pack: 166.5 kg Battery base: 3.7 kg

General

Installation	Floor Stand
Operating Temperature	−20°C to 50°C (−4°F to 122°F)
Operating Altitude	≤3000 m
Cooling Method	Natural Convection
Noise Level	≤35 dB
Relative Humidity	0%-100% RH
Protection Level	IP65
Protective Class	I

Compliance

Certificates	CE, CB, TUV Mark
Safety Standard	IEC/EN62619, IEC/EN62040-1, IEC/EN62477-1, ISO13849
Delivery Standard	UN38.3
EMC	EN 61000-6-1, EN 61000-6-3

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.