

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 change the AC wiring**

Significantly reducing installation time.

**No need to replace the existing solar inverter**

Investing less to store more solar power.

**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

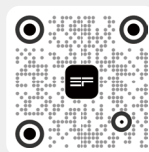


EcoFlow Pro Web Portal

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

**For users**

EcoFlow App



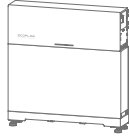
EcoFlow Web Portal

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

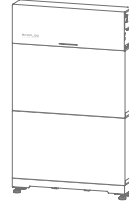
# Technical Parameters

## EcoFlow PowerOcean DC Fit

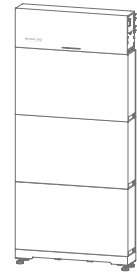
Module



EF PD-5-S1 × 1  
EF BD-5.1-S1 × 1  
EF BD-B-S1 × 1



EF PD-5-S1 × 1  
EF BD-5.1-S1 × 2  
EF BD-B-S1 × 1



EF PD-5-S1 × 1  
EF BD-5.1-S1 × 3  
EF BD-B-S1 × 1

Installation

Floor Stand / Wall-Mounted Installation

Battery Module Capacity

5.1kWh

10.2kWh

15.3kWh

Max. Output Power

3.3kW

5kW

5kW

Max. Input Power

2.5kW

5kW

5kW

Dimensions (WxDxH)

\*Without Adjustable Feet

680×201×682 mm

680×201×1078 mm

680×201×1475 mm

Weight

\*Without Adjustable Feet

77.3 kg

132.8 kg

188.3 kg

## EcoFlow PowerOcean PV Storage Converter

Model

EF PD-5-S1

### DC Input (PV)

Max. Input Charging Power

5kW (2.5kW per string)<sup>1</sup>

Max. Input Charging Current

12A per string<sup>2</sup>

Max. Input Voltage (Absolute Maximum)

1000V d.c.

Operating Voltage Range

150-800V d.c.

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 Current

20A per string

Max. Output Voltage

1000V d.c.

Max. Output Discharging Power

5kW (2.5kW per string)<sup>1</sup>

Max. Output Discharging Current

12A per string<sup>2</sup>

Operating Output Voltage Range

150-800V d.c.

## Battery Port

Battery Discharging Voltage Range	800-900V d.c.
Max. Discharging Current	6.5A d.c.
Max. Discharging Power	5.2kW <sup>1</sup>
Battery Charging Voltage Range	800-900V d.c.
Max. Charging Current	6A d.c.
Max. Charging Power	4.8kW <sup>1</sup>

## 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)
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
Wi-Fi	2412-2472MHz/2422-2462MHz; 17.47dBm
Bluetooth	2402-2480 MHz; 7.68 dBm
Cooling Method	Natural convection
Pollution Degree	2

## Compliance

Certificates	CE, CB, TUV Mark
Safety Standard	IEC/EN62109-1
EMC	ETSI EN 300 328 V2.2.2 EN IEC 62311 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

<sup>1</sup> The value is measured with 2 or 3 battery packs installed.

<sup>2</sup> If the charging or discharging voltage falls below 208V, the device cannot achieve a power of 2.5 kW.

## EcoFlow PowerOcean LFP Battery Pack

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

Nominal Voltage	800V d.c.
Operating Voltage Range	720-960V d.c.
Cell Type	LFP

### General

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% (Condensing)
Active Aerosol Fire Prevention Module	Integrated
IP Rating	IP65
Protective Class	I

### Compliance

Certificates	CE Mark
Safety Standard	EN62619:2022, EN62040-1:2019, EN62477-1:2012, ISO13849-1:2015, VDE-AR-E-2510-50:2017-05
Delivery Standard	UN38.3
EMC	EN 61000-6-1, EN 61000-6-3