

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.

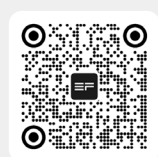
No on-grid permit required

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

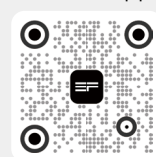


EcoFlow Pro Web Portal

<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 (W×D×H) *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) ¹
Max. Input Charging Current	12A per string ²
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) ¹
Max. Output Discharging Current	12A per string ²
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 ¹
Battery Charging Voltage Range	800-900V d.c.
Max. Charging Current	6A d.c.
Max. Charging Power	4.8kW ¹
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

1 The value is measured with 2 or 3 battery packs installed.
2 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
Performance	
Nominal Voltage	800V d.c.
Operating Voltage Range	720-960V d.c.
Cell Type	LFP
Battery Usable Capacity (95% Depth of Discharge)*	EF BD-5.1-S1 × 1: 4.8kWh EF BD-5.1-S1 × 2: 9.7kWh EF BD-5.1-S1 × 3: 14.5kWh
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 61000-6-2, EN 61000-6-3, EN61000-6-4

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