



EcoFlow PowerBox (Three-Phase)

Take Control, Stay Powered.

The EcoFlow PowerBox (Three-Phase) is a manual transfer switch designed for three-phase PowerOcean solar battery storage systems. It enables effortless whole-home power backup and ensures continuous power supply—even during system installation or rare inverter failures—delivering a smooth and reliable user experience.



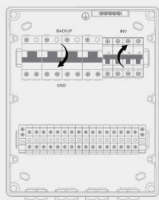
Whole-Home Power Backup

EcoFlow PowerBox makes whole-home power backup easier than ever. It supports a dedicated whole-home backup wiring method for EcoFlow PowerOcean (Three-Phase) to keep your household powered during outages.

Uninterrupted Power Supply

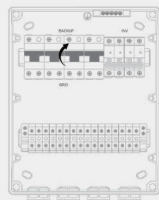
Compatible with both EcoFlow PowerOcean (Three-Phase) and PowerOcean Plus (Three-Phase), PowerBox ensures uninterrupted power during system installation or rare inverter failures by simply switching manually to draw power directly from the grid.

With EcoFlow PowerOcean (Three-Phase)



On-Grid Operating Condition

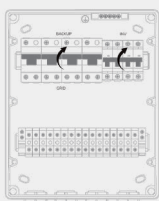
- Under on-grid operating condition, the backup load will be powered by the grid and the inverter.



Off-Grid Operating Condition

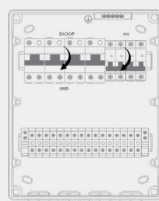
- Under off-grid operating condition, flip it upwards to enable the Backup output, the backup load will be powered by the inverter.

With EcoFlow PowerOcean Plus (Three-Phase)



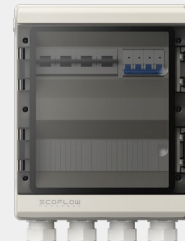
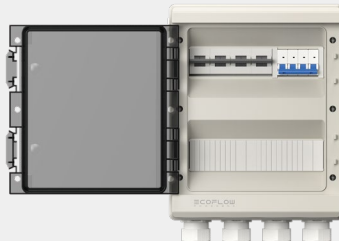
Normal Operating Condition

- Under normal operating condition, flip it upwards to enable the Backup output, the backup load will be powered by the inverter and the grid (grid-connected only).



Fault Condition

- In case of an inverter failure, the inverter can be bypassed manually, allowing the backup load to be directly powered by the grid. Please follow the instructions below:
 1. Turn off AC breaker.
 2. Flip it downwards to enable the Grid output.



General Data

Model	EF-SD-002
Compatible Inverter	EF HD-P3-6/8K0-S1, EF HD-P3-10/12K-S1, EF HD-P3-29K9-S1, EF HD-P3-15/20/25K0-S1
Dimensions (W x H x D)	302 mm x 373 mm x 132 mm
Weight	5.0 kg
Installation	Wall Mount
Enclosure Material	Polycarbonate/ABS
Degree of Resistance to Impacts	IK10

Performance

Rated Voltage	AC 400 V, L1/L2/L3/N+PE
Operating Frequency	50/60 Hz
Maximum Current	63 A ^{*1}
Max Continuous Current	50 A ^{*2}
Overvoltage Category	III
Protection Class	II
Electromagnetic tripping type	C
MTS Contact Form	I-O-II

Environment

Cooling	Natural Convection
Relative Humidity Range	5% - 95% RH (non condensing)
Ingress Protection Rating	IP40
Max. Operating Altitude	3000 m (derating over 2000 m)
Operating Temperature Range	-20°C to 50°C (derating over 30°C)
Pollution Degree	PD3
Environmental Category	Indoor

Compliance

Certificates	CE
Safety Standard	IEC/EN61439-1, IEC/EN61439-3

^{*1} Prolonged operation at this current may cause the circuit breaker to trip.

^{*2} The distribution box can operate continuously at this current when the ambient temperature does not exceed 30°C.

*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 flyer 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.

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