



ECOFLW

EcoFlow Gateway (Single-Phase)

Expand your system, now with whole-home power

Gateway is the heart of your home energy system—built to unlock full backup potential. With 100A mains support for true whole-home coverage, it simplifies installation with direct main-panel connection and streamlined wiring. Multiple energy inputs give you the flexibility to power your setup your way—reliably, efficiently, and without compromise.



Seamless whole-home backup, without limits



Supports up to 100A

Delivers full backup for most European households — no need to limit critical loads.

Parallel-ready

Connect multiple EcoFlow PowerOcean (Single-Phase) systems for greater total output.

0ms load-side switching

Switches to backup instantly—no downtime, no disruption.

Fast installation, easy wiring

Direct whole-house load access

Connects directly to the main distribution panel, reducing complexity, cost, and time.

Built-in smart meter

No external meter needed. Monitor real-time usage and generation from a single device.

Non-backup load output

Keep essential loads protected by routing non-critical circuits to the grid when needed.



More connections, more control

Designed for true energy flexibility, Gateway integrates seamlessly with multiple energy inputs and third-party smart ecosystems—from energy management systems to home appliances. Stay powered on-grid, off-grid, or anywhere in between, with smarter, effortless control.

Third-party solar inverters:	Supported
Diesel generators:	Supported
Third-party appliances:	Supported



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EcoFlow Gateway is the central hub that unlocks the full potential of your home energy system, starting with 100A mains support for true whole-home backup, expanding your options with multiple energy inputs, and making installation effortless with direct main-panel connection and simplified wiring — delivering reliable, flexible power for any household setup.

General Data	
Model	EF-SG-001
Compatible Inverter	EF HD-P1-3K-S1, EF HD-P1-3.68K-S1, EF HD-P1-4.6K-S1, EF HD-P1-5K-S1, EF HD-P1-6K-S1
Dimensions	465 x 380 x 160 mm
Weight	15 kg
Noise emission	<30 dB
Installation	Wall Mount
Low voltage ride through	Supported
Bypass operation mode	Manual
Communication	Ethernet/RS485/CAN/DI/DO
DC power output	12 V/1 A
Grid Connection	
Grid connection type	L/N+PE
Nominal AC voltage	220/230/240 V
Nominal AC current	100 A
Nominal AC power	22/23/24 kW
Nominal AC frequency	50/60 Hz
Backup switchover time	0 ms ^{*1}
AC Output to Backup Port	
Nominal AC voltage	220/230/240 V
Nominal AC current	100 A
Nominal AC power	22/23/24 kW
Nominal AC frequency	50/60 Hz
Overvoltage category	3
Generator Port	
Nominal AC voltage	220/230/240 V
Nominal AC current	100 A
Nominal AC power	22/23/24 kW
Generator 2-wire auto-start	Supported
Environment	
Cooling	Natural Convection ^{*2}
Relative Humidity Range	0%~95% RH
Ingress Protection Rating	IP54
Max. Operating Altitude	3000 m (derating over 2000 m)
Operating Temperature	-30°C to 60°C ^{*3}
Storage Temperature	-30°C to 60°C
Environmental Category	Indoor/Outdoor

^{*1} This parameter denotes the load-side transfer interruption duration. To implement this functionality, the gateway must be used in conjunction with the EcoFlow PowerOcean (Single-Phase) system.
Test Conditions: When the utility grid is in an open-circuit state, the rated power of the EcoFlow PowerOcean (Single-Phase) system shall exceed the total power consumption of the backup loads.

^{*2} With internal fan.

^{*3} The operating temperature ranges from -30°C to +40°C, and the long-term steady-state current is not derated. When the temperature ranges from 40°C to 60°C, the current is linearly derated from 100 A to 50 A.