

# EcoFlow Gateway (Single-Phase)

Expand your system, now with whole-home power

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 <sup>*1</sup>
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 <sup>*2</sup>
Relative Humidity Range	0%~95% RH
Ingress Protection Rating	IP54
Max. Operating Altitude	3000 m (derating over 2000 m)
Operating Temperature	-30°C to 55°C <sup>*3</sup>
Storage Temperature	-30°C to 60°C
Environmental Category	Indoor/Outdoor

<sup>\*1</sup> 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.

<sup>\*2</sup> With internal fan.

<sup>\*3</sup> 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 55°C, the current is linearly derated from 100 A to 62.5 A.