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 100 A 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.

Technical Specification	EF-SG-001	EF-SG-002
General		
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	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, EF-HD-P1-3K-S2, EF-HD-P1-3K68-S2, EF-HD-P1-4K6-S2, EF-HD-P1-5K-S2, EF-HD-P1-5K75-S2, EF-HD-P1-6K-S2, EF-HD-P1-6K0-S2, EF-HD-P1-6K0-S2F, EF-HD-P1-8K0-S2, EF-HD-P1-8K0-S2F, EF-HD-P1-10K0-S2, EF-HD-P1-10K0-S2F, EF-HD-P1-12K0-S2, EF-HD-P1-12K0-S2F
Dimension (W x H x D) (mm)	465 x 380 x 160	
Weight (kg)	15	
Ingress Protection Rating	IP54	IP55
Noise (dB)	<30	
Installation	Wall Mounted	
Surge Protection	Type II	
Low Voltage Ride-through	Supported	
Bypass Operation Mode	Manual	
Communication	Ethernet / RS485 / CAN / DIDO	
DC Power Output	12V 1A	
Grid Connection		
Grid Connection Type	L / N + PE	
Nominal AC Voltage (V)	220 / 230 / 240	
Nominal AC Current (A)	100	
Nominal AC Power (kW)	22 / 23 / 24	
Nominal AC Frequency (Hz)	50 / 60	
Backup Switchover Time (ms)	0[1]	
AC Output to Backup Port		
Nominal AC Voltage (V)	220 / 230 / 240	
Nominal AC Current (A)	100	
Nominal AC Power (kW)	22 / 23 / 24	
Nominal AC Frequency (Hz)	50 / 60	
Overvoltage Category	Type III	
Generator Compatibility		
Nominal AC Voltage	220 / 230 / 240	
Nominal AC Current	100	
Nominal AC Power	22 / 23 / 24	
Generator 2-wire Auto-start	Supported	
Adaptability		
Cooling Method	Natural Convection[2]	
Relative Humidity Range (RH)	0% ~ 95%	
Max. Operating Altitude (m)	3000 (derating over 2000)	
Operating Temperature (°C)	-30 ~ 60[3]	
Storage Temperature (°C)	-30 ~ 60	
Installation Scenarios	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 Single-Phase system. Test Conditions: When the utility grid is in an open-circuit state, the rated power of the EcoFlow 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.

* On this website, the trademark "EcoFlow", EcoFlow's product, product-series names and business solutions, such as "PowerOcean", "OCEAN" and "Ecosystem" (collectively, the "Names"), are used solely
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