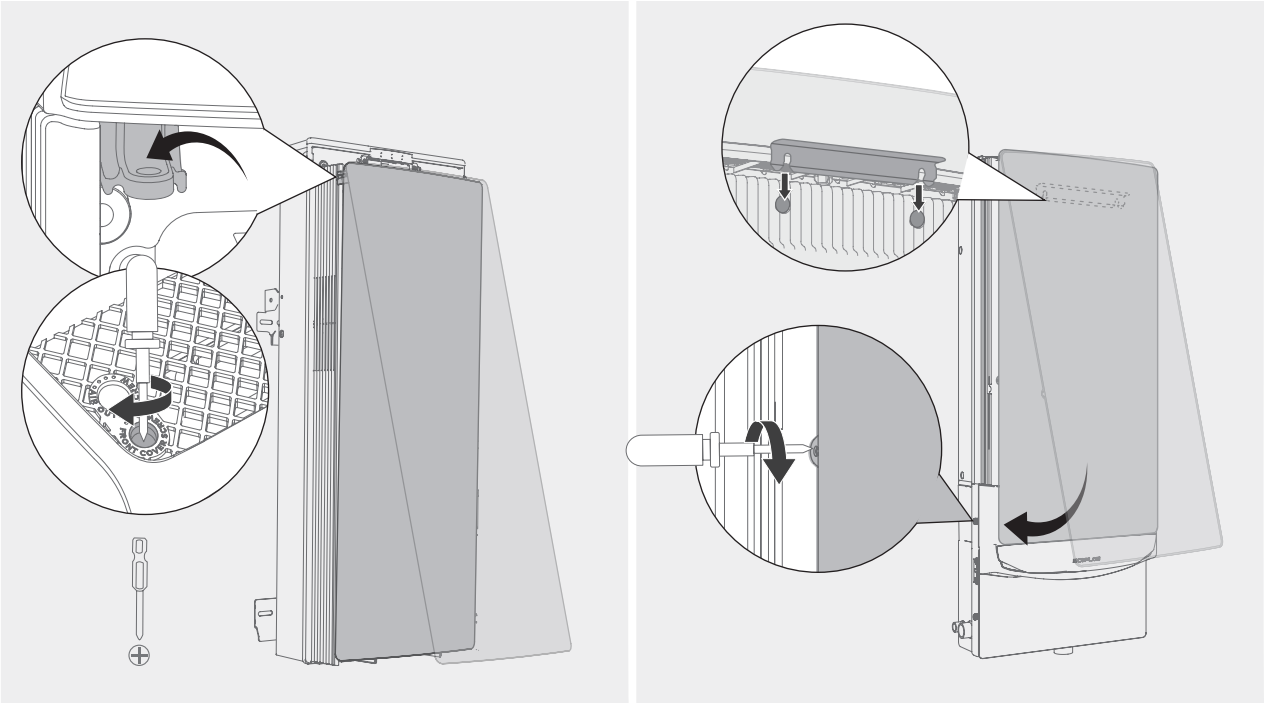


Install the front covers



Check before Power On

Check Item	Acceptance criteria
Equipments	Equipments are installed correctly and securely.
Cables routing	Cables are routed properly as required by the customer.
Cable tie	Cable ties are evenly distributed and no burr exists.
Grounding	The PE cable is connected correctly, securely, and reliably.
Switch	All the switches connecting to the system are OFF.
Cable connection	The AC/DC power cable, battery cable, and communication cable are connected correctly, securely, and reliably.
Unused terminal and port	Unused terminals and ports are locked by watertight covers.
Installation environment	The installation space is proper, and the installation environment is clean and tidy.

I System Power-On

Observe the display screen to check the inverter operating status.

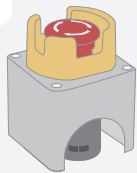


- If a second black-start is required, please wait for 10 seconds and then operate again.

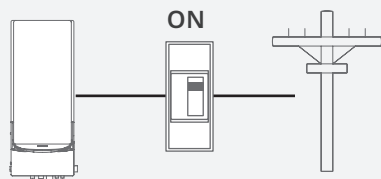


EPO

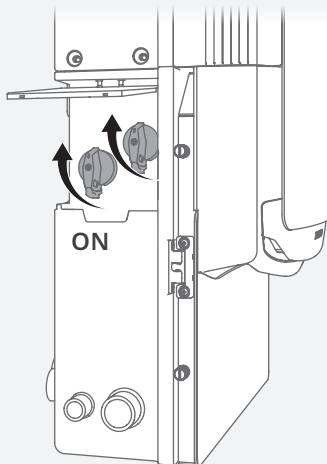
First, confirm that the EPO is in an open-circuit state.



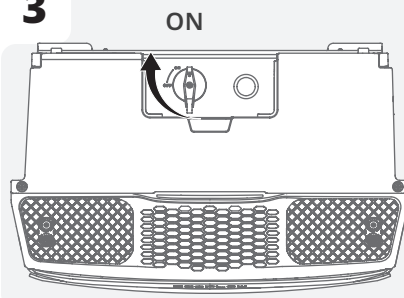
1



2

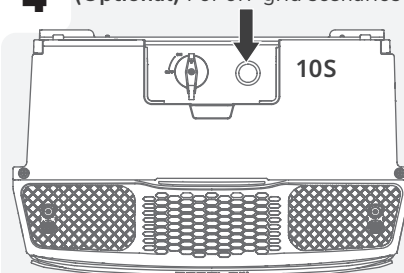


3



4

(Optional) For off-grid scenarios



I System Power-Off

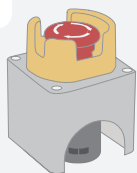


- After the system powers off, the remaining electricity and heat may still cause electric shocks and body burns. Therefore, put on protective gloves and wait for five minutes after the power-off, then proceed. Use a multimeter, confirm that no AC power is present.

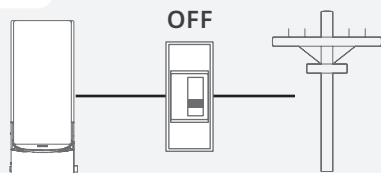


EPO

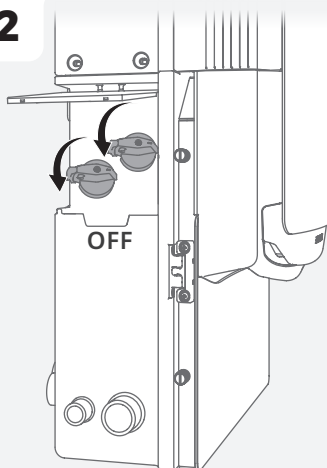
First, press the button to shut down the system.



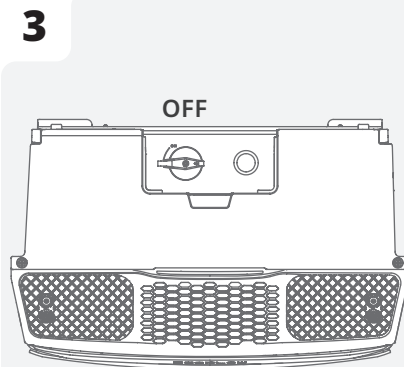
1



2



3



I LCD Screen

Power Supply



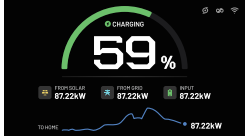
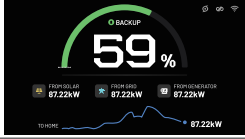
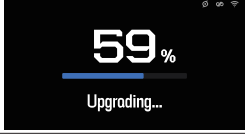
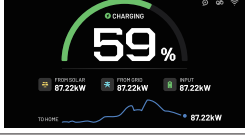
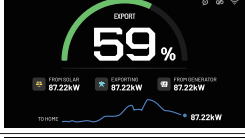
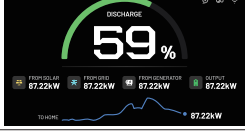
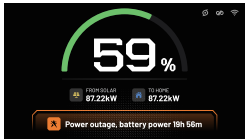
Solar power input



Grid power input/output



Smart generator input

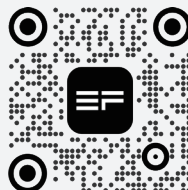
Charging		1. Battery level overview 2. Charging 3. Real-time battery level 4. Solar power 5. Grid power 6. Home load power
Backup		The PE cable is connected correctly, securely, and reliably.
Firmware upgrade		1. Firmware upgrade progress 2. Firmware upgrade in progress
Solar power feed-in		1. Battery level overview 2. Charging 3. Real-time battery level 4. Solar power 5. Feed-in power 6. Home load power
Battery feed-in		1. Battery level overview 2. Charging 3. Real-time battery level 4. Solar power 5. Feed-in power 6. Home load power
Standby		1. Battery level overview 2. Real-time battery level 3. Solar power 4. Power outage 5. Home load power
Power outage		1. Battery level overview 2. Discharging 3. Real-time battery level 4. Solar power 5. Grid power 6. Home load power
Discharge		1. Storm protection 2. Self-powered mode 3. Wi-Fi connected

I System Commissioning Via EcoFlow Pro App / App

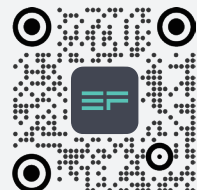
- 1 DOWNLOAD AND INSTALL ECOFLOW PRO APP (FOR INSTALLER ONLY)**
 Scan the QR code or download at:
<https://download.ecoflow.com/ecoflowproapp>



- 2 DOWNLOAD AND INSTALL ECOFLOW APP (FOR END USER ONLY)**
 Scan the QR code or download at:
<https://download.ecoflow.com/ecoflowproapp>



- 3 SCAN THE QR CODE FOR COMMISSIONING INSTRUCTIONS AND OTHER OPERATIONS.**



Technical Specifications

Model		EF-PCS-24	
System Technical Specifications	Power Scalability for Battery	Up to 8 units supported (80 kWh)	
	Supported Islanding Devices	EcoFlow OCEAN Smart Electrical Panel, EcoFlow OCEAN Meter Backup Switch, EcoFlow OCEAN Gateway	
	Hardware Interface	Rapid Shutdown (RSD) certified switch to AP system (Default), Tigo, NEP	
	Customer Interface	EcoFlow Mobile APP, Power Insight	
	Power Scalability	Up to 2 units	
	Type of couple	AC coupled and DC coupled	
	Maximum Short Circuit Current per MPPT	20 A	
	Emergency Power Off (EPO)	Supported	
	Arc fault circuit interrupter (AFCI)	Supported	
	Ground Fault Circuit Interrupters (GFCI)	Supported	
On-Grid Technical Specifications	Nominal Grid Voltage (Input & Output)	120/240V~ (Split phase)/208V~ (2/3 phase)	
	Grid type	Split phase	
	Nominal Output Frequency	60 Hz	
	Nominal Output Power	24 kW	11.5 kW
	Maximum Apparent Power	24 kVA	11.5 kVA
	Maximum Continuous Current	100 A	48 A
	Overcurrent Protection Device	125 A	60 A
	Output Power Factor Rating	0.85 leading ~ 0.85 lagging	
	Solar to Battery to Home/Grid Efficiency	89% maximum	
	Solar to Home/Grid Efficiency	97.8% maximum	
	Output THDI (@Linear Load)	<3%	
Backup Technical Specifications	Nominal Output Voltage	120/240V~ (Split phase)/208V~ (2/3 phase)	
	Maximum Continuous Current	100 A	48 A
	Nominal Output Power	24 kW	11.5 kW
	Maximum Apparent Power	24 kVA	11.5 kVA
	Nominal Output Frequency	60 Hz	
	Output THDI (@Linear Load)	<3%	
	Output THDI (@RCD Load)	<5%	
	UPS-level switching time	<10 ms	
	Load Start Capability	205A LRA (1 s)	
Solar Technical Specifications	Maximum Solar STC Input	40 kW	
	Withstand Voltage	600 V DC	
	PV DC Input Voltage Range	60-550 V DC	
	PV DC MPPT Voltage Range	60-480 V DC	
	MPPTs	8 (5 kW per channel)	
	Maximum Current per MPPT (Imp)	16 A	
	Maximum Short Circuit Current per MPPT (Isc)	20 A	

Environmental Specifications	Operating Humidity(RH)	Up to 100%,condensing
	Operating Temperature	-20°C to 60°C (-4°F to 140°F) (>45°C (113°F) de-rating)
	Storage Temperature	-20°C to 30°C (-4°F to 86°F)
	Elevation	3000 m (9843 ft) (>2000 m (6561 ft) de-rating)
	Environment	Indoor and outdoor rated
	Enclosure Rating	NEMA 3R
	Ingress Rating	IP67 (Battery & Power Electronics) IP55 (Wiring Compartment)
	Pollution Rating	PD3
	Operating Noise@1m	< 45 dB (A) typical < 60 dB (A) maximum
Compliance Information	Certifications	UL1699B, UL1741, UL1741 SA, UL1741 SB, UL1973, UL1998, UL9540, IEEE1547-2018, IEEE1547.1, UN38.3
	Grid Connection	IEEE 1547
	Emissions	FCC Part 15 B, FCC Part15 C
	Environmental	U.S. Toxic Substances Control Act (TSCA)
	Seismic	AC156, IEEE 693-2005 (high)
	Fire Testing	Meets the module and unit level performance criteria of UL 9540A and UL9540B
Mechanical Specifications	Dimensions	1100 x 440 x 265 mm (43.3 x 17.3 x 10.4 in)
	Weight	69 kg (152 lb)
	Mounting Options	Wall mount