FOXESS CO., LTD
Add: No.939, Jinhai Third Road, New Airport Industry Area, Longwan District, Wenzhou, Zhejiang, China
E-mail:info@fox-ess.com Web:www.fox-ess.com Tel:0510-68092998

EPS AC Couple Setup Guide

Overview

Connect a third-party PV inverter to Fox ESS hybrid inverter's EPS port for backup power during grid outage.

Supported Models & Firmware

Model	Master	Manager
H1-G2	≥V1.43	≥V1.58 (WL V1.27)
KH	≥V1.49	≥V1.48 (WL V1.08)
H3-Smart	≥V1.32	≥V1.20
PQ-H1	≥1.17	≥1.14
PQ3-M	≥1.39	≥1.00

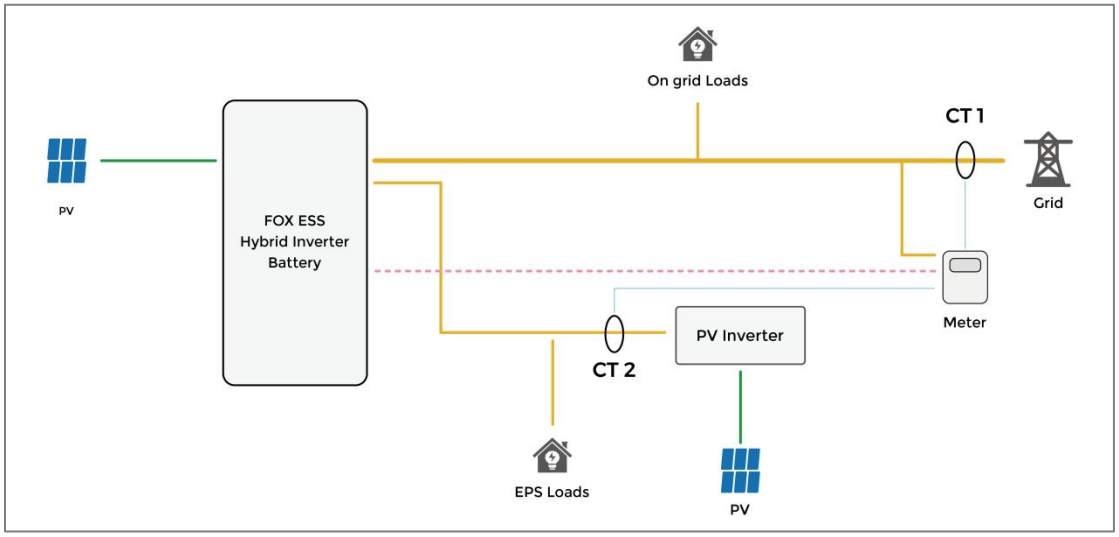
Requirements

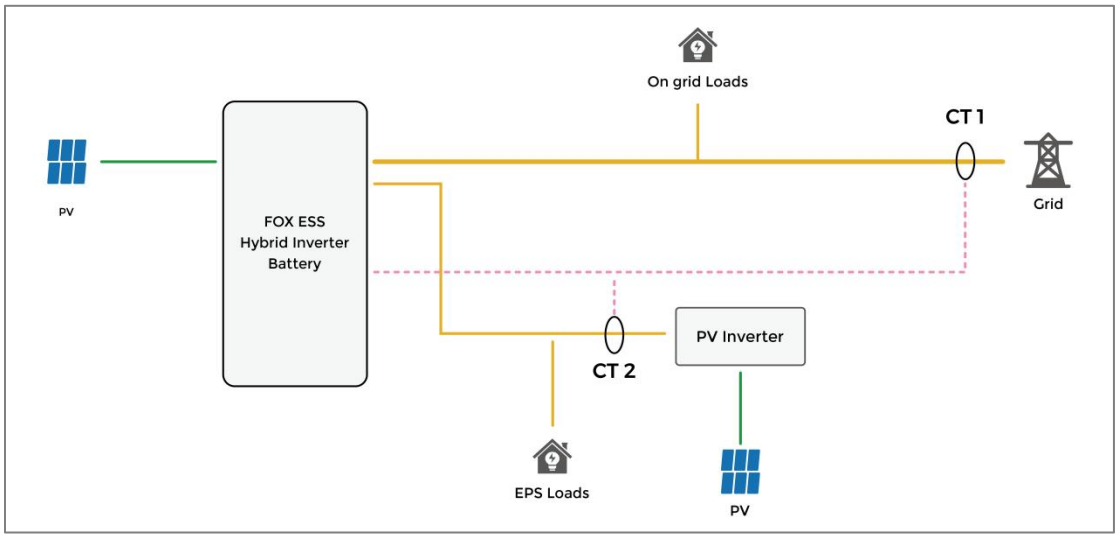
- Fox ESS inverter must have battery connected
- Third-party inverter power < Fox ESS rated power
- Battery charging power > PV inverter power
- Third-party inverter must support frequency response
- EPS load < Fox ESS rated power

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Installation

1. Install CT on GRID side and PV inverter output side (pay attention to direction)
2. Connect third-party inverter to EPS port



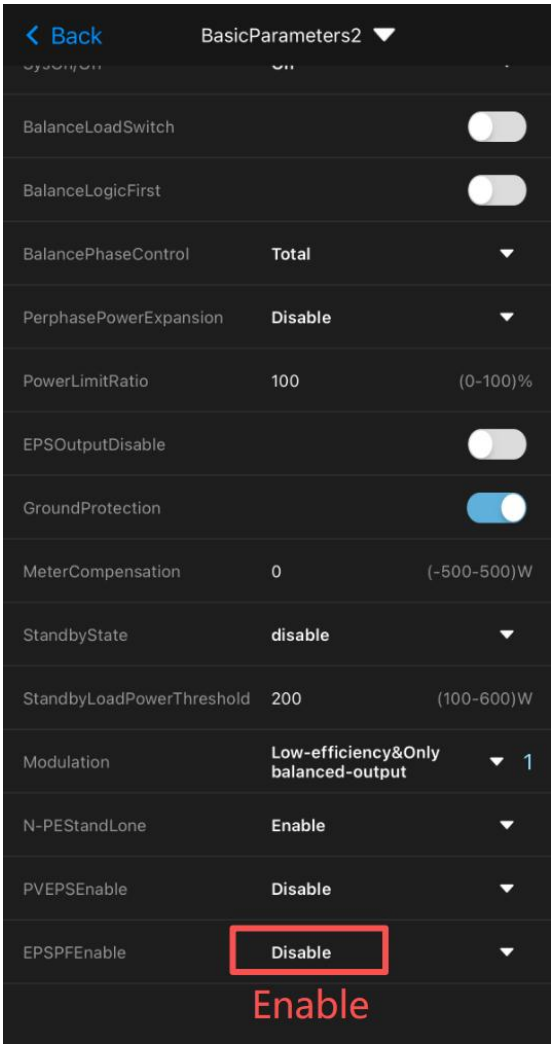


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Configuration

Enable **EPS_PF** function:

1. Login as Installer/Agent
2. Go to: Advanced settings → BasicParameter2
3. Enable EpsPf Enable



How It Works

Grid-connected: Normal operation. Surplus power goes to battery.

Grid outage:

- Fox ESS switches to EPS mode
- Third-party PV keeps running

- When battery SOC reaches 90%: Fox ESS raises EPS frequency to 52Hz → third-party PV stops
- When SOC drops to 85%: Frequency returns to 50Hz → PV resumes

Grid restore: Fox ESS auto-switches back to normal mode after grid compliance check.

Notes

- CT direction is critical
- Battery must be connected
- When battery is full, third-party PV output is uncontrolled for on grid mode