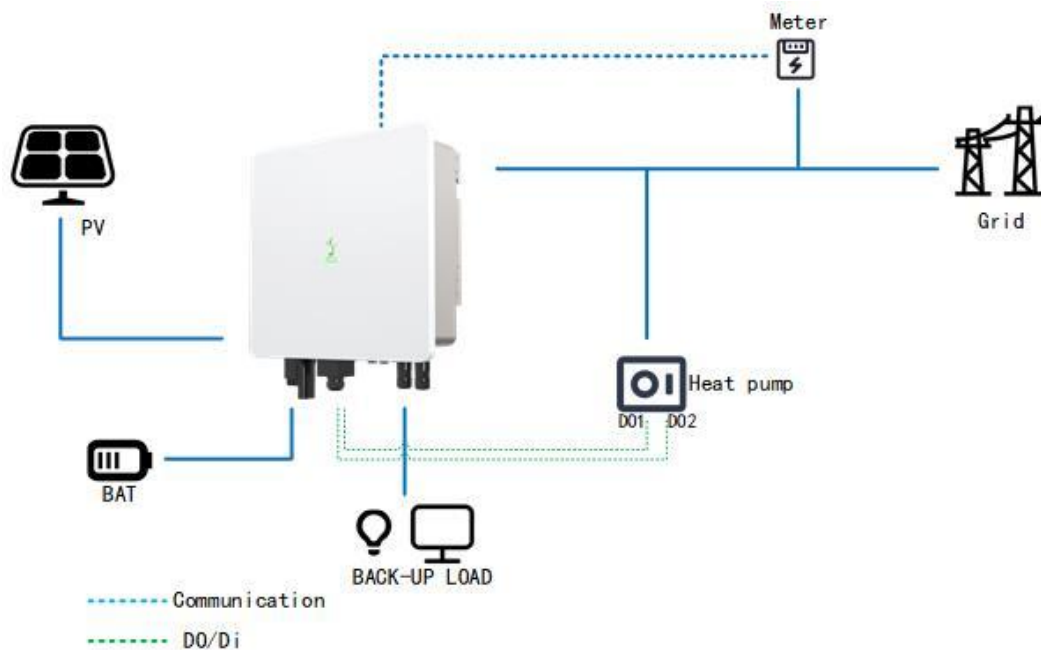


Isuna6000S Heat Pump Control Instruction Manual

This user manual is designed to help you understand and properly operate the system. Please read carefully before use and follow the instructions.

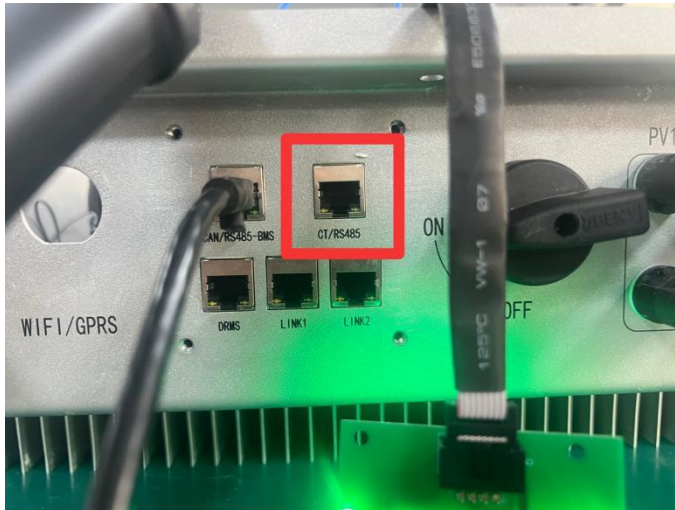
1. System Block Diagram

The inverter-controlled heat pump system optimizes energy utilization through intelligent control to achieve high efficiency. The system supports multiple operating modes to adapt to various usage scenarios.

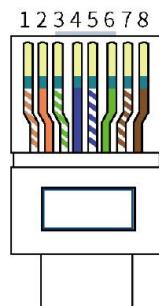


2. Dry Contact Connections

(1) Heat pump dry contacts are connected to the inverter's [CT/RS485] interface:



(2) RJ45 pin assignments:



The inverter controls the heat pump through two DO ports: **SG** and **EVU**, which jointly regulate the heat pump status:

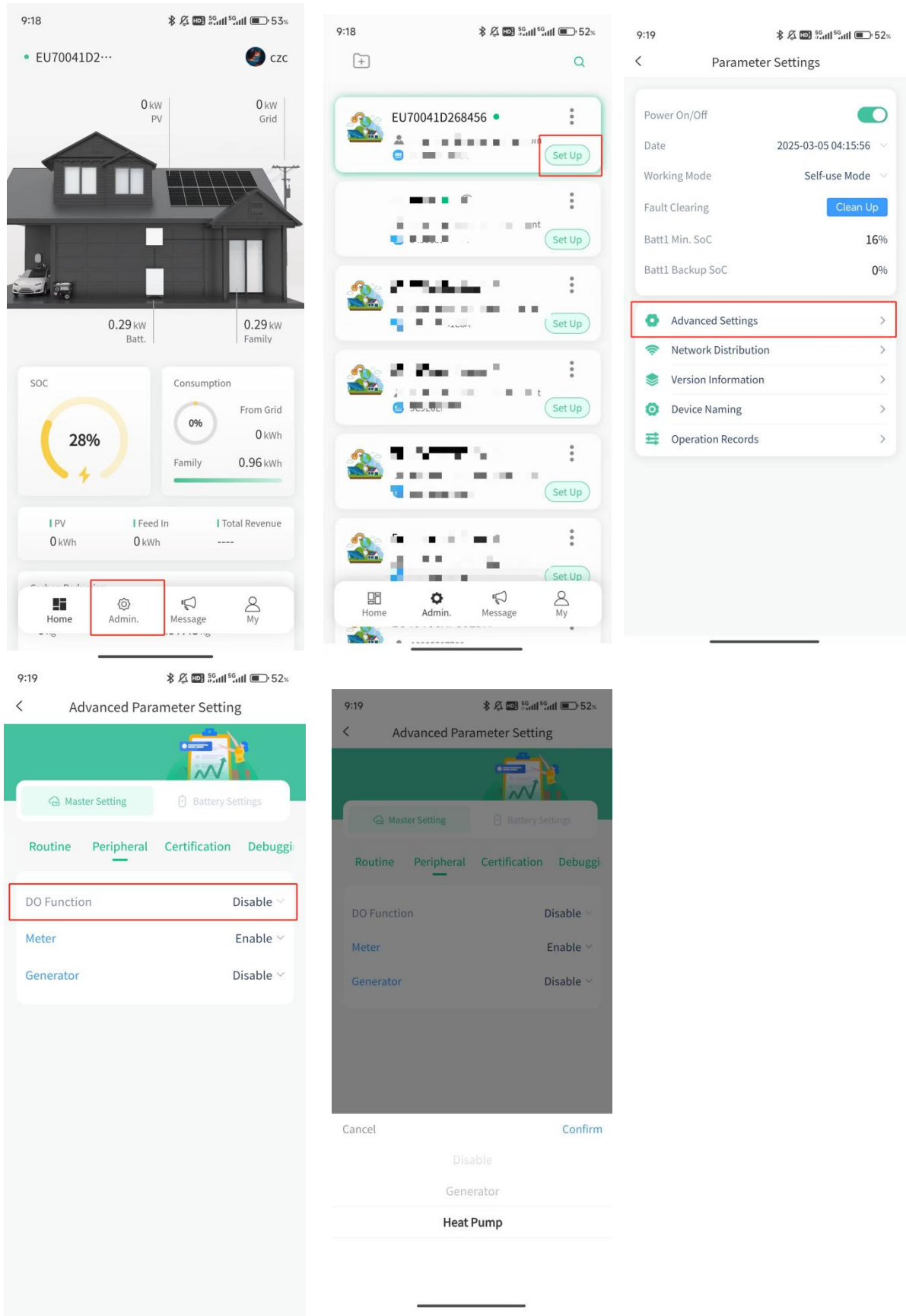
SG DO Port: Pin 1 and Pin 2 ([Orange-White and Orange])

EVU DO Port: Pin 3 and Pin 4 ([Green-White and Blue])

3. APP Configuration & Operational Logic

Enable Function: To activate the heat pump, set the DO function to

"Heat Pump". Control logic varies across modes:



3.1 Self-use Mode

System adjusts operations based on PV power levels:

PV \geq 100% of inverter rated power: EVU closed, SG closed

(Ultra-Strong)

PV 50%-100% of inverter rated power: EVU closed, SG open

(Strong)

PV 0%-50% of inverter rated power: EVU open, SG closed

(Standard)

PV = 0% & battery discharge = 0: EVU open, SG closed (Standard)

3.2 Timed Charge/Discharge Mode

Operates based on preset time intervals:

Charging period: EVU open, SG closed (Standard)

Discharging period: EVU open, SG open (Energy-Saving)

3.3 Backup Mode

Adjusts operations based on PV power minus battery charging power:

PV power = Battery charging power: EVU open, SG closed

(Standard)

PV power < Battery charging power: EVU open, SG open

(Energy-Saving)

(PV - Battery) \geq 100% of rated power: EVU closed, SG closed

(Ultra-Strong)

(PV - Battery) 50%-100% of rated power: EVU closed, SG open

(Strong)

(PV - Battery) 0%-50% of rated power: EVU open, SG closed

(Standard)

3.4 Other Modes/Statuses

Default energy-saving operation:

EVU open, SG open (Energy-Saving or heat pump not controlled

by inverter)