

ELS-5K PV System Switch Function Introduction

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NOTE: This feature is available for ELS-5K model in EMEA, AU, CN,
and ELS-5K-SG model in Latin America.

1.1 summarize

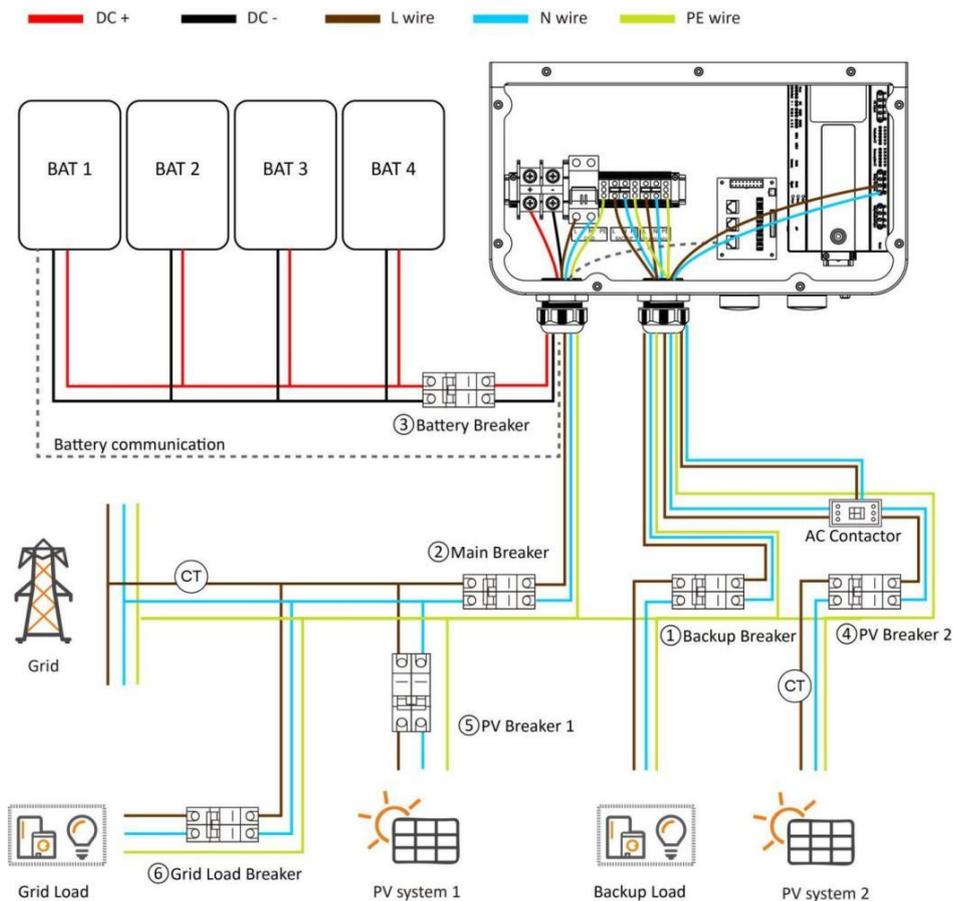
The photovoltaic system switch uses an externally controllable photovoltaic contactor to control the connection state between the third-party photovoltaic system on the off-grid side and the PCS, and the PCS will determine whether to let the photovoltaic charge the battery according to the battery SOC. Prevent overcharging of the battery and failure to stop the photovoltaic power supply. After the PV system is switched on, PCS will control the off-grid optical storage system through an external contactor and an internal backup relay. The third-party photovoltaic system can also operate normally when the grid is cut off.

NOTES:

1. PV installed capacity using PV system switch = maximum system charging power *100%.
2. Installed capacity compatible with ELS-5K using DS3 and DS3D = maximum system charging capacity *125%.

1.2 AC contactor wiring diagram

Two wires are drawn from the R2N and R2L terminals on the relay output panel of the PCS built-in ECU-C and connected to the auxiliary contacts of the AC contactor. (The wiring diagram is as follows)



NOTES:

1. AC contactors are usually normally open contactors.
2. The AC contactor needs to be purchased by itself, and the AC contactor is driven at 230V AC voltage.

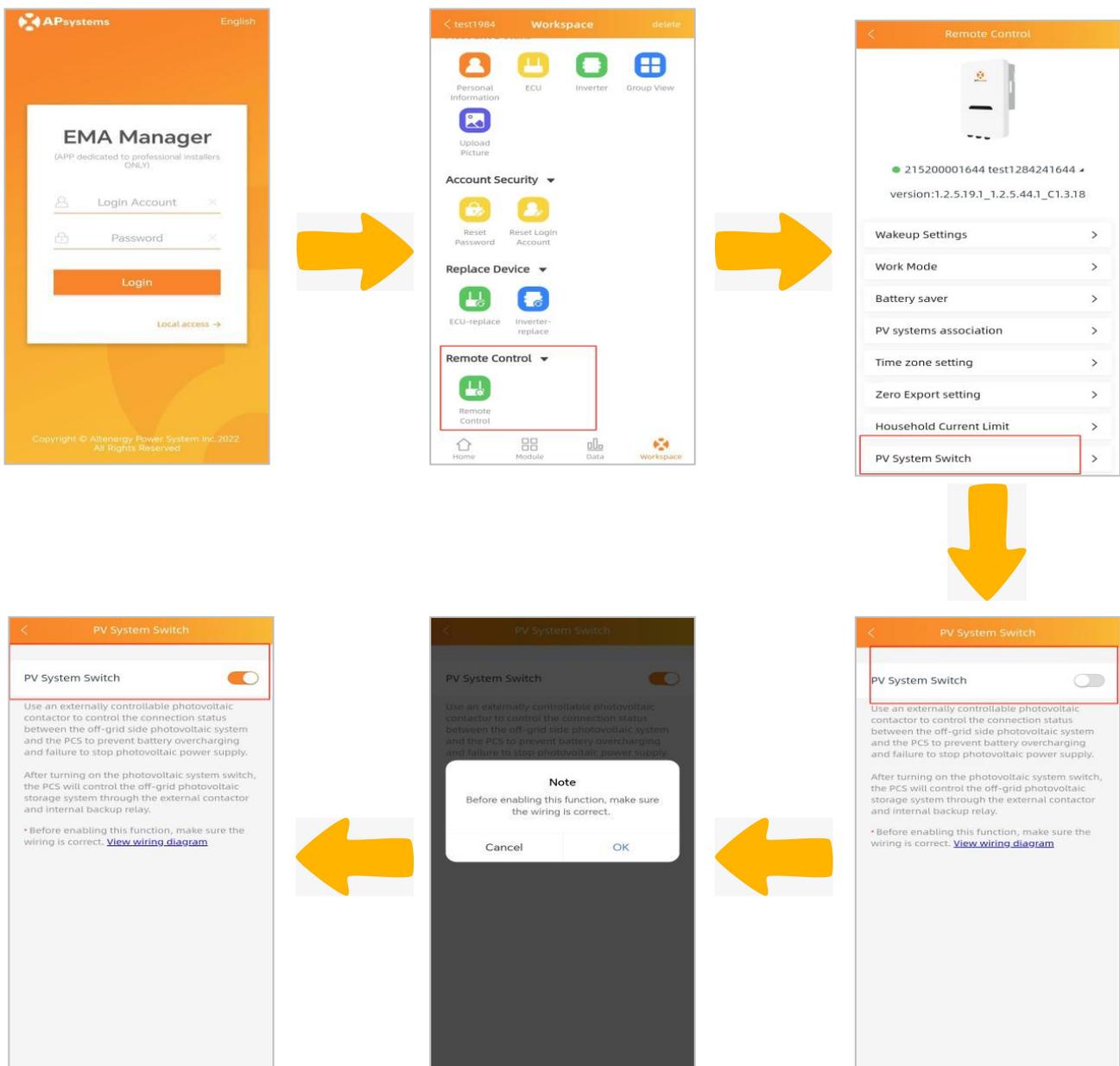
1.3 Photovoltaic system switch operation entrance

Enabling mode of the PV system switch function :

Remote configuration: You can log in to the authorized account in the APP "EMA Manager" or log in to the web page "Energy Monitoring and Analysis (EMA) Platform" for remote control. (See below for detailed steps)

1.3.1 EMA Manager remote configuration

Remote Account login -> User -> Workbench -> Remote Control -> PV system switch



1.3.2 The Energy Monitoring and Analysis (EMA) Platform is configured remotely

Login account Password -> User List -> Remote Control energy storage -> Photovoltaic system switch



NOTES:

1. This feature is only available for EMA Manager and EMA Web and is not currently supported for local access.
2. Only after the PV system switch is turned on, the R2N-R2L has an AC-230V output.