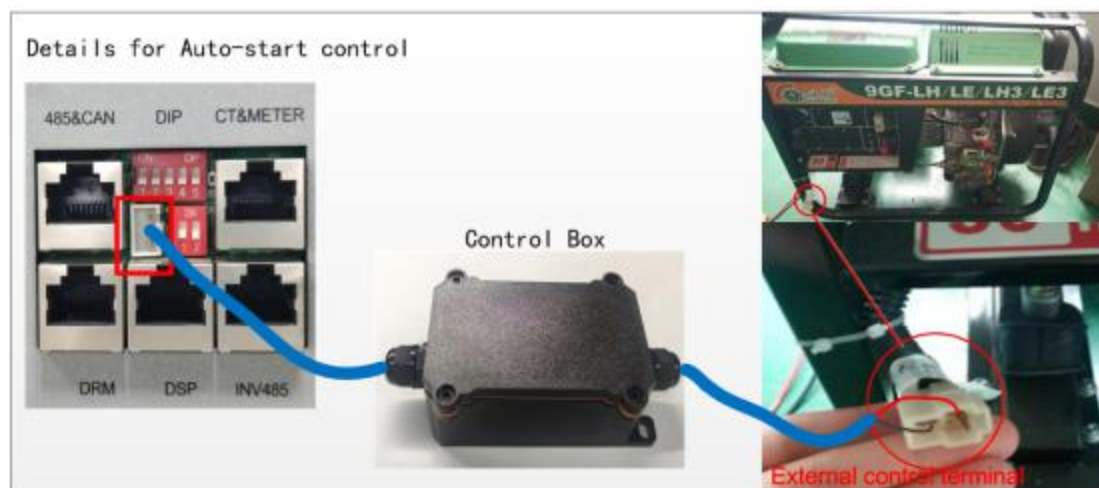
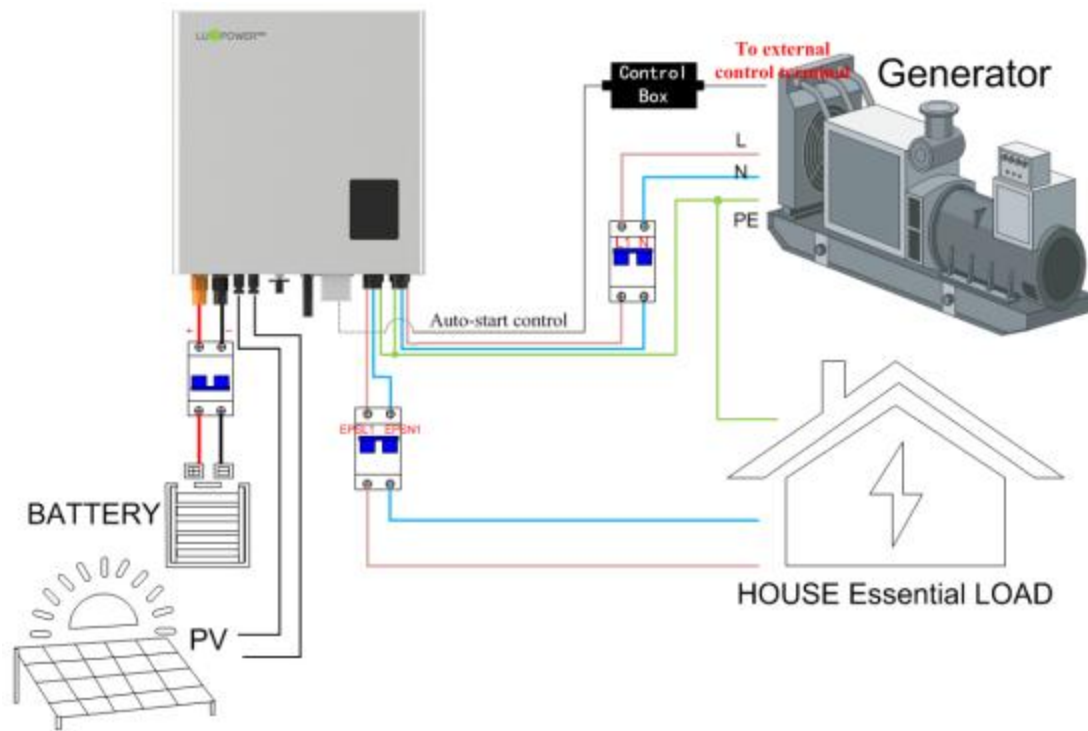


Work with Generator

Users can connect the generator output to inverter Grid terminal. If you have both grid and generator as AC input, an external ATS is required to switch between grid and generator.

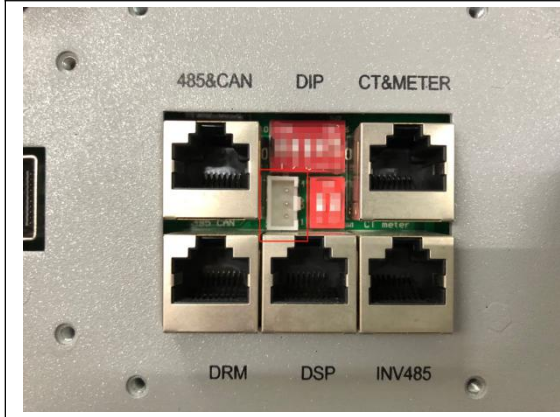
If you need to auto start the generator when battery is lack of energy, please purchase an external control box to remote turn on/off the generator (which support dry contact function).

The generator will be automatically started when battery SOC is lower than the cut-off value or there is charge request from BMS. When voltage is higher than AC charge cut-off value, it will stop the generator.



Notice: 1. The Generator itself should support auto-start function which may be named as "remote start" and physical terminal might be the "AUX input" and the "GND" (Read the manual of generator carefully)

2. The output of the control box is an ON/ OFF signal , it can be described as an external switch of generator.



Configuration for auto start function

1. Micro-grid function should be enabled

The screenshot shows the 'Application Setting' page in the Lux Power web interface. The 'Maintain' tab is active. Under 'Application Setting', the 'Micro-Grid' option is highlighted with a red box, with 'Enable' selected. Other settings include 'Power Backup', 'Seamless EPS switching', 'PV Grid Off', 'Feed-in Grid', 'Fast Zero Export', 'Set System Type', 'Set Composed Phase', and 'Max. AC Input Power'.

2. Auto start: When the battery SOC is low than Offgrid cut-off value , the generator will be auto started.

The screenshot shows the 'Discharge Setting' page. The 'Off-grid Discharge Cut-off SOC' field is highlighted with a red box, with a value of [0, 90]. Other settings include 'System Discharge Power Rate', 'On-grid Discharge Cut-off SOC', and various 'Forced Discharge' parameters like 'Forced Discharge Enable', 'Power Rate', 'Battery Level', and 'Start/End Times'.

3. Auto stop: When the battery SOC reaches AC charge level , the generator will be stopped automatically.

The screenshot shows the 'Charge Setting' page. The 'AC Battery Charge Level' field is highlighted with a red box, with a value of [0, 100]. Other settings include 'System Charge Power Rate', 'Equalization Voltage', 'Equalization Time', 'Charge Last', 'Equalization Period', and various 'AC Charge' parameters like 'AC Charge Enable', 'Power Rate', and 'Start/End Times'.