

## On-Grid

### 1. Back-up Mode

PV power + Grid power  $\geq$  Load consumption, Grid charging power and Grid charging cut-off SOC should be set.

Note: In this mode, there are three type of charging conditions (Set Grid charging cut-off SOC is 95%):

- 1) When Grid charging only, Grid charging cut-off SOC will activity, then Grid will stop charging until reach SOC 95%
- 2) When PV charging only, PV power > Load consumption necessarily under this condition, the excess PV power after supply load will continually charging until PV charging cut-off voltage.
- 3) When PV + Grid charging simultaneously, until the real-time SOC reach Grid charging cut-off SOC 95%, Grid will stop charging, and excess PV power after supply load will continually charging until PV charging cut-off voltage.

### 2. Standard Mode

PV power > Load consumption, PV supply Load and charging.

PV power < Load consumption, PV and Battery supply load simultaneously, until battery discharging cut-off SOC, then Grid will supply load. In this mode, Grid will not charging, but still remain SOC stay on discharge cut-off SOC.

### 3. Time Schedule

Level 1 Setting: Off-season and Peak-season

Level 2 Setting: Month period of Off & Peak-season

Level 3 Setting: Weekday, Saturday and Sunday

Level 4 Setting: On-Peak corresponding Mini Grid Mode, Off-Peak corresponding Back-up Mode and Mid-Peak corresponding battery without charging & discharging.

## Off-Grid Mode

PV power > Load consumption, PV supply Load and charging.

PV power < Load consumption, PV and Battery supply load simultaneously until reach battery discharging SOC to start GEN, then GEN will supply load. GEN charging power can be set. GEN will stop until reach GEN stop SOC.

Note: The system shows GEN online after GEN mode start.