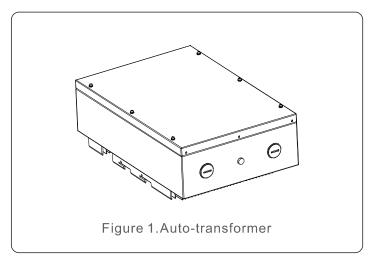
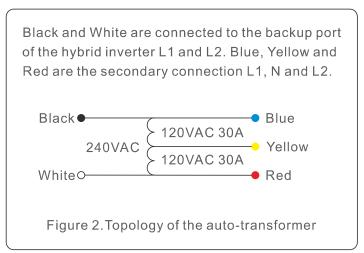


# Auto-transformer quick installation guide

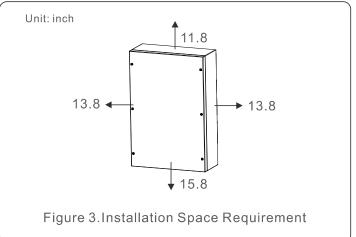
#### 1. Introduction

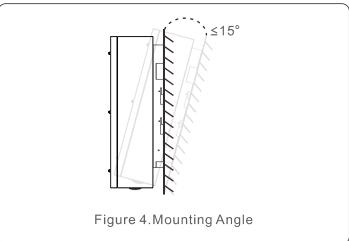
This quick installation guide is prepared for the auto-transformer used with Solis-RHI-1P(5-10)K-HVES-5G hybrid inverter in a split phase system. The backup port of the hybrid inverter has a rated output AC voltage of 240VAC L1-L2. If a 120V L1(L2)-N backup load is connected in the system, the auto-transformer can be installed to the backup port to create the L1-N-L2 connection thus supporting 120V loads with L1-N or L2-N. The topology of the auto-transformer is shown below:

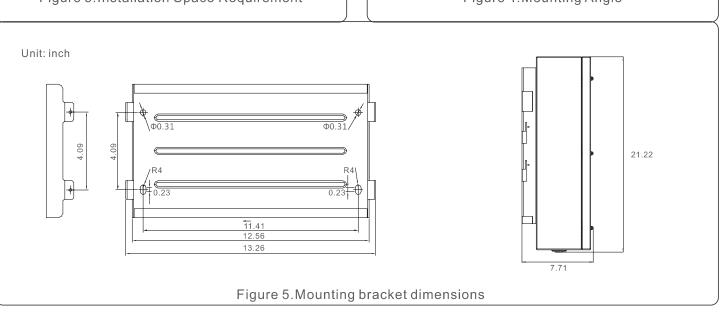




## 2. Install the auto-transformer







# Installation Steps:

- Step 1: Find a location which complies with the above installation requirement.
- Step 2: Drill holes for the mounting bracket. Use suitable expansion bolts to fix the bracket onto the wall.
- Step 3: Hang the auto-transformer box to the mounting bracket.

Use M4 screws to fasten the installation with torque 7.3~9.0 N.m.



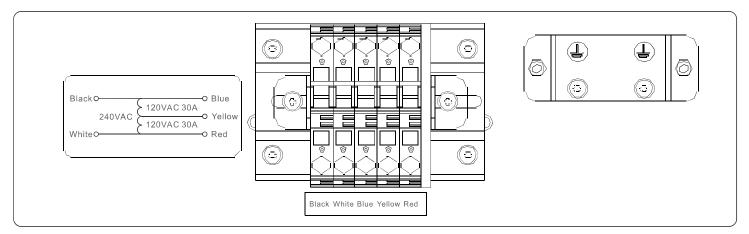


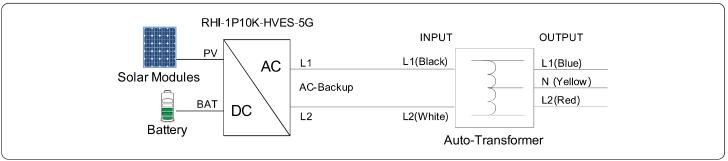
## NOTE:

The auto-transformer box is 52.9 lb, please carefully evaluate the installation process to avoid injuries.

# 3. Wire Connection Steps

- Step 1: Loosen the six cover screws and open the front cover of the auto-transformer.
- Step 2: Run the INPUT cables and OUTPUT cables through the two conduits (D: 1.35in) at the bottom separately.
  - Connect the INPUT cables L1 and L2 to the BLACK and WHITE terminals (6-11 AWG).
  - Connect the OUTPUT cables L1, L2 and N to the BLUE, RED and YELLOW terminals (6-8 AWG).
- Step 3: Connect the internal grounding cable and heat sink grounding cable, M4\*14 screws, torque 2-3 N.m.
- Step 4: Reassemble the front cover.







#### **WARNING:**

Before conducting the wiring connection, please make sure the system is powered off. Otherwise serious injuries may happen.

# 4. Specifications

Model	Solis-ATR-6K	Model	Solis-ATR-6K
Output AC(Grid side)		General data	
Rated output power	6000 VA	AC Output conduit size / AWG range	6-8 AWG/8-13 mm <sup>2</sup>
Max. apparent output power	8600 VA for 10 sec	Dimensions (W*H*D)	14.17*20.86*7.71 mm
Rated grid voltage	120/240 V Split Phase	Weight	52.9 lb
Rating grid output current	30 A	Min - Max Operatng Temperature	-25 ~ +60 °C
Split Phase Imbalance (@Rated Power)	Up to 30 A difference between phases	Ingress Protection	NEMA 3R
		Installation	Wall mounted