NS&DNS CT Quick Install Instruction
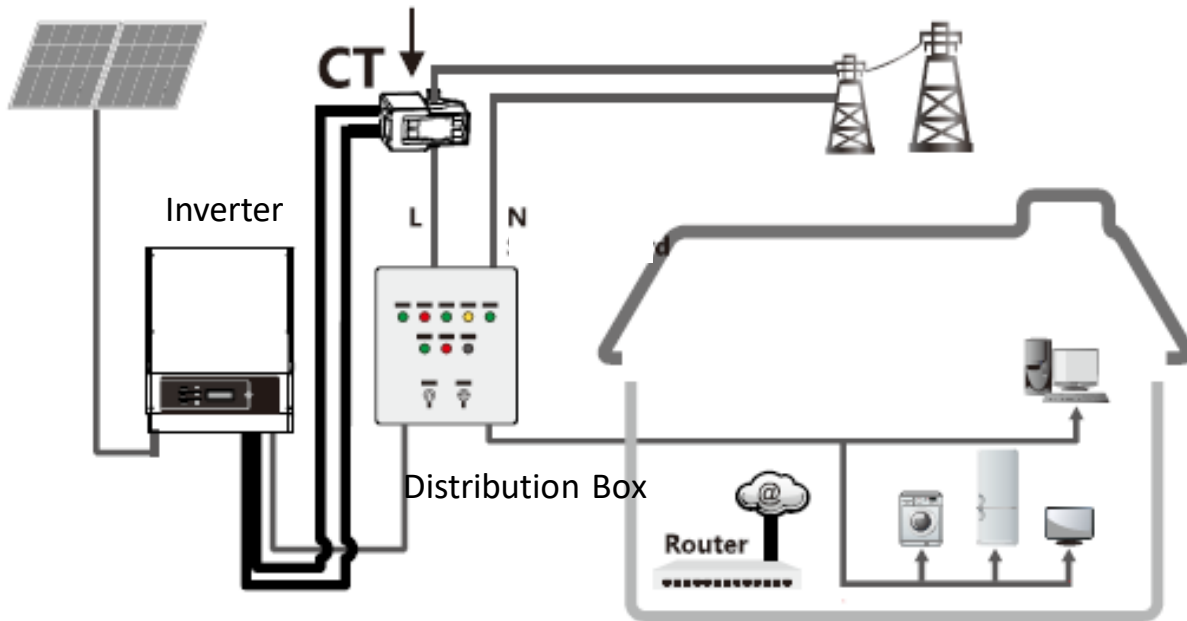
CT Working Principle & Connection

Power Limit Configuration

CT is used for monitoring power transferring from inverter to grid . CT is connected to inverter , and firing line goes through it as Picture 1 showed below.

Picture 1

Open CT clamp and let the firing line which connected distribution box and grid go through it . There is K to L mark in CT which means the current direction . This direction cannot be wrong.
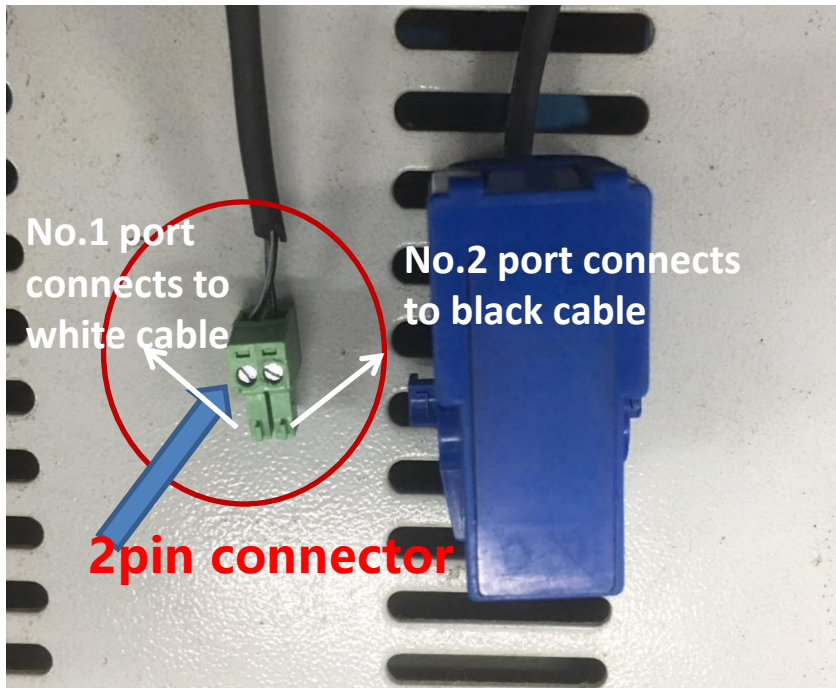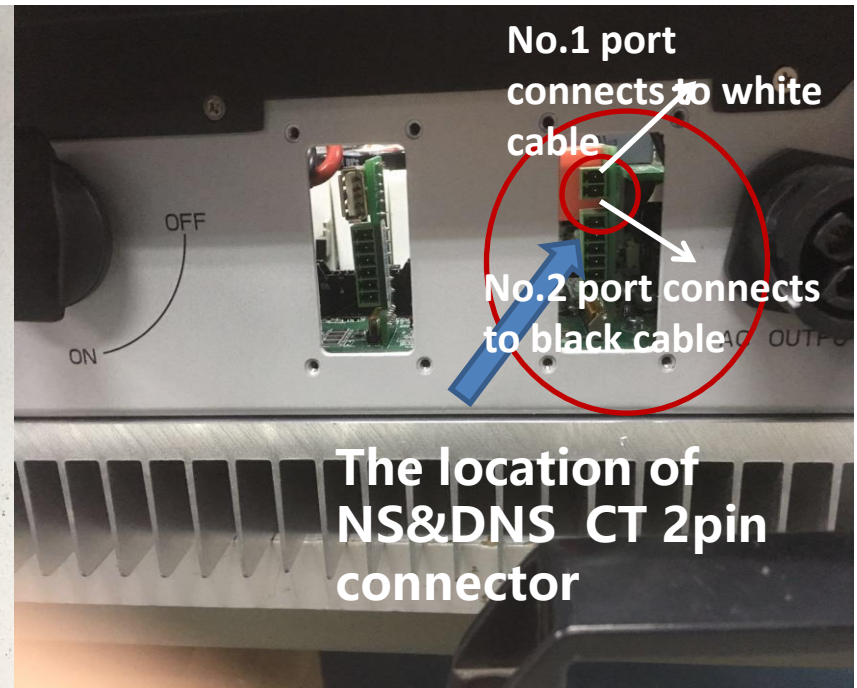
Current Direction

Clamp

K

L
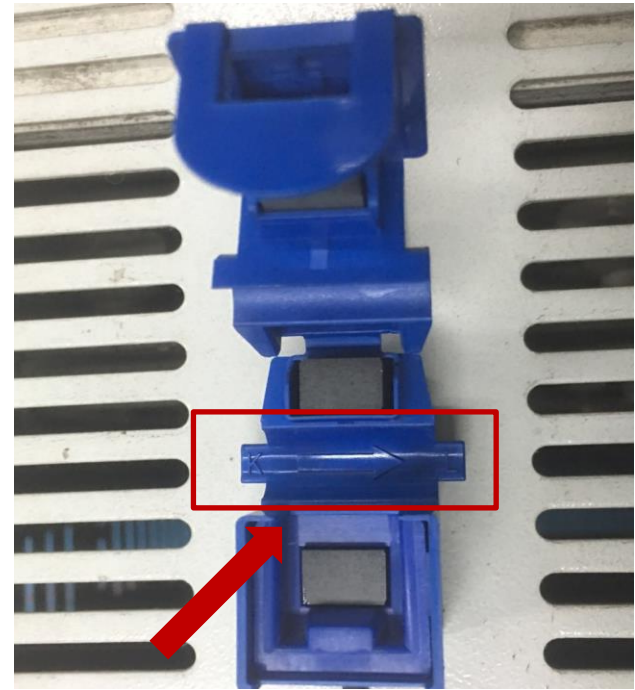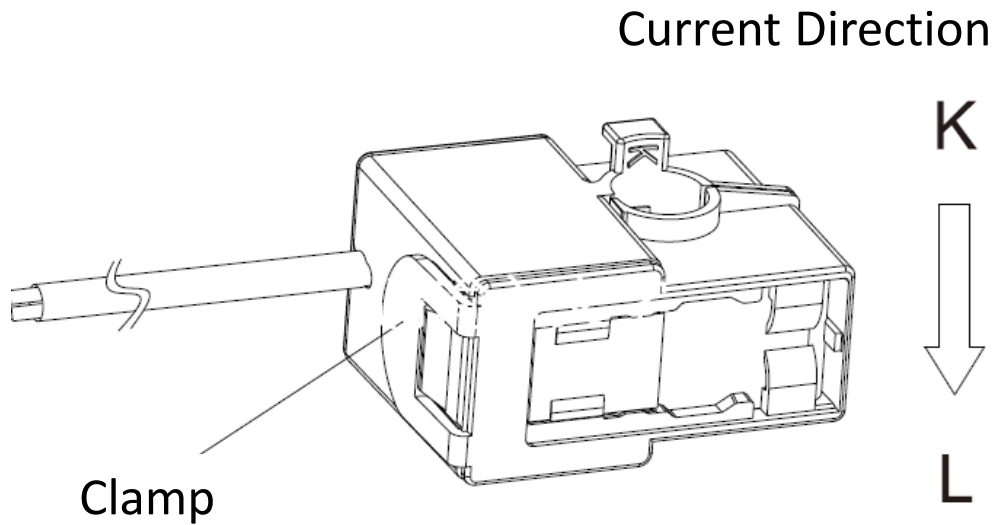
Current Direction K→ L (Load → Grid)

Picture 2

The white cable on CT connects to the No.1 port of 2pin connector , the black cable on CT connects to the No.2 port of 2pin connector . Please make sure the connection is right as Picture 3 & 4 showed below.
Note : You will have to finish the connection of 2pin connector yourself on site.
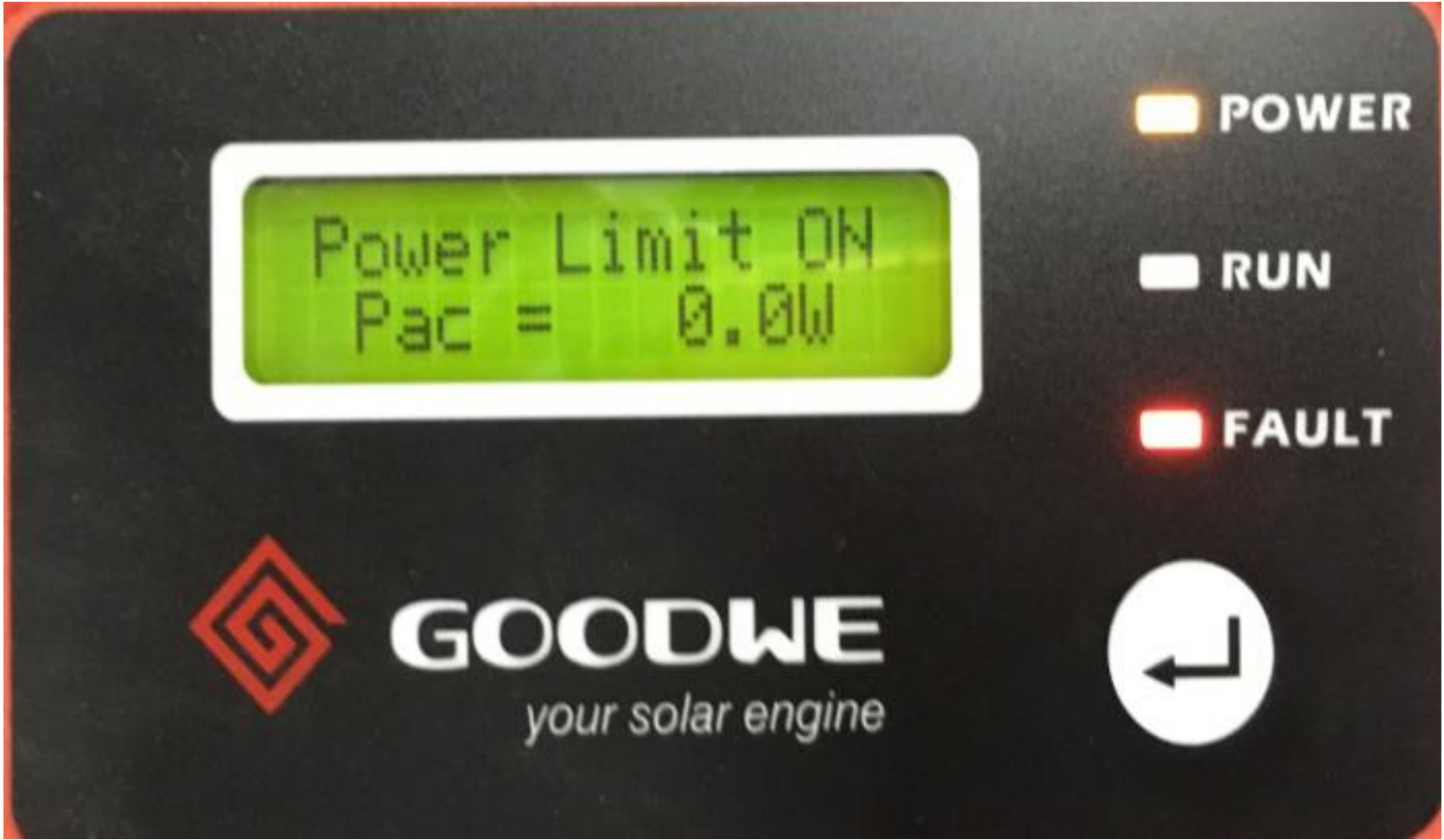

Picture 3

Picture 4

When the screen displays the level 1 menu , please short press 'Enter' button to find out 'Power Limit OFF/ON' (the default setting is 'Power Limit OFF') , then long press the 'Enter' button to change 'Power Limit OFF' to 'Power Limit ON' as Picture 5 & 6 showed below.

Picture 5

Picture 6

After set 'Power Limit ON' , short press 'Enter' button to find power limit rate then long press 'Enter' button to find percentage of power limit setting , setting rate is from 0%-100% . When you set the parameter , the relevant area will blink.

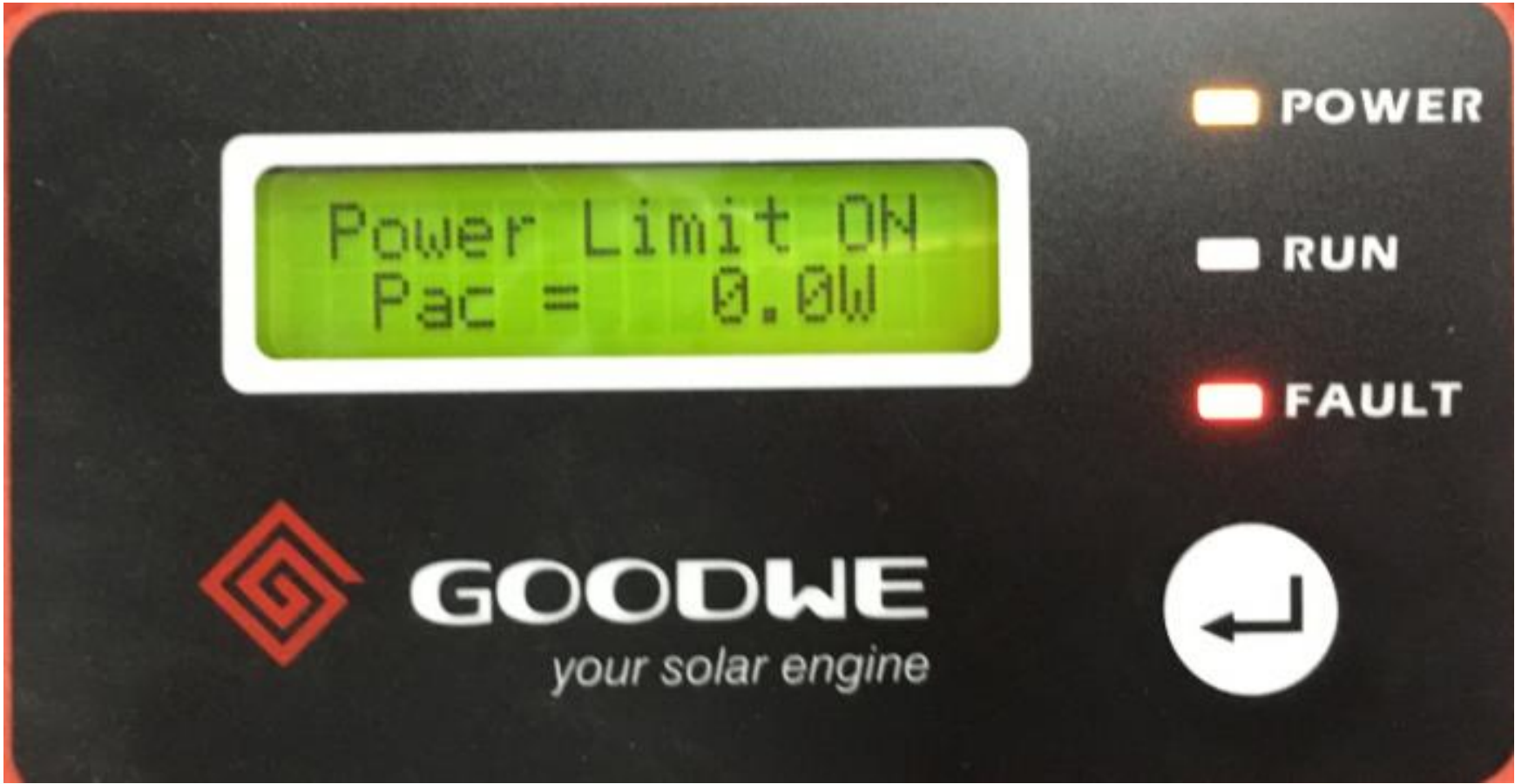Note : Power to grid = Inverter output power * Limitation percentage.

Picture 7

After install CT and set power limit , you will see the inverter output power Pac = load power + limited max power as picture 8 showed below.

Picture 8

Q1：What is the tolerance for actual output of NS&DNS after set power limit percentage?
A1：Normally about 3% (Eg. GW1000-NS , set power limt 10% then maximum limited power is about 70W—130W).

Q2：If the power limit percentage can be set to 000% for NS&DNS?
A2：Yes . But there is still less power transfer to grid.

Q3：What is the shrink ratio for CT?
A3：1:1000

Q4：What is the length for CT communication line?
A4：It should be within 5m which R&D tested.

Thanks