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# NS&DNS CT Quick Install Instruction

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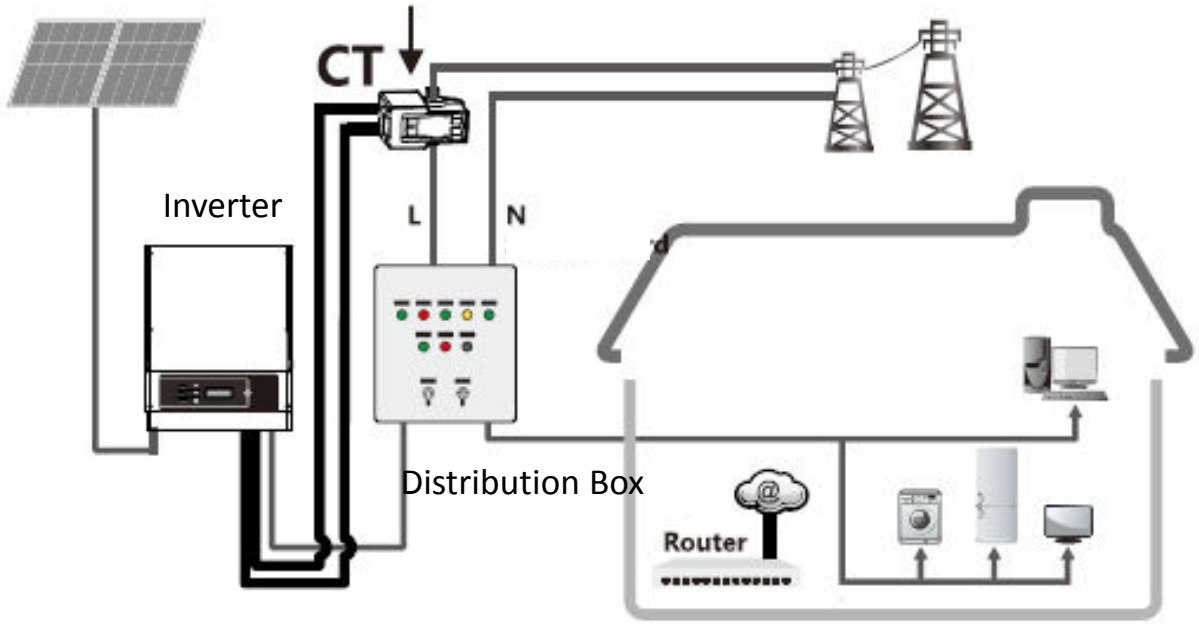
# CT Working Principle & Connection



# Power Limit Configuration

# CT Working Principle & Connection

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.

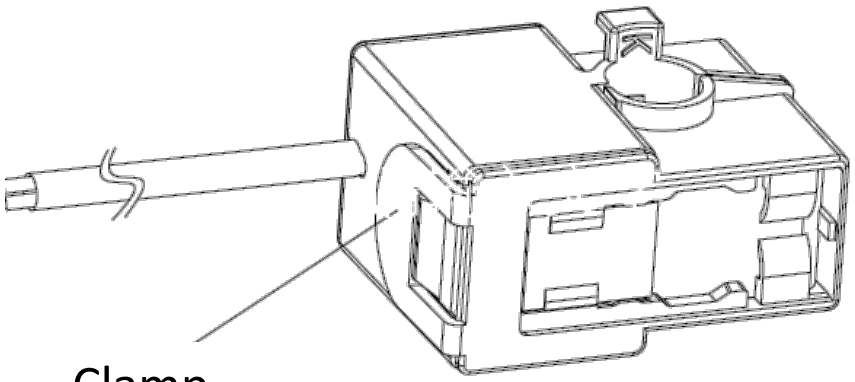


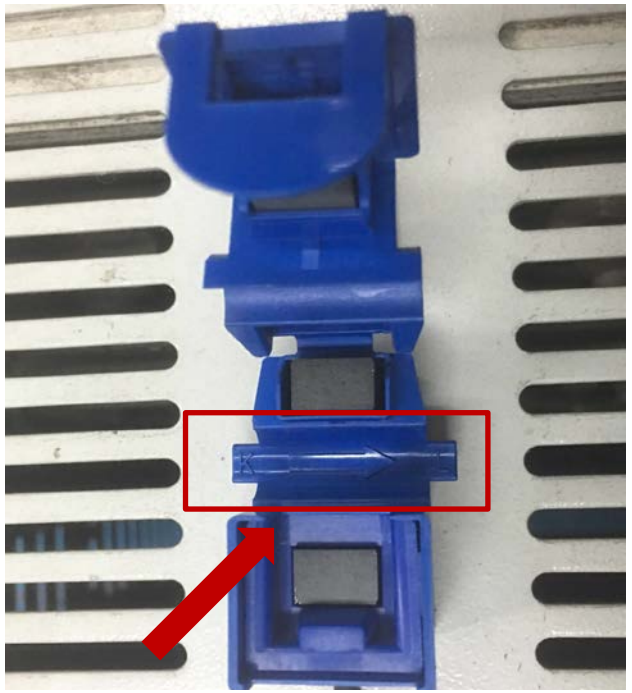

Picture 1

# CT Working Principle & Connection

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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.



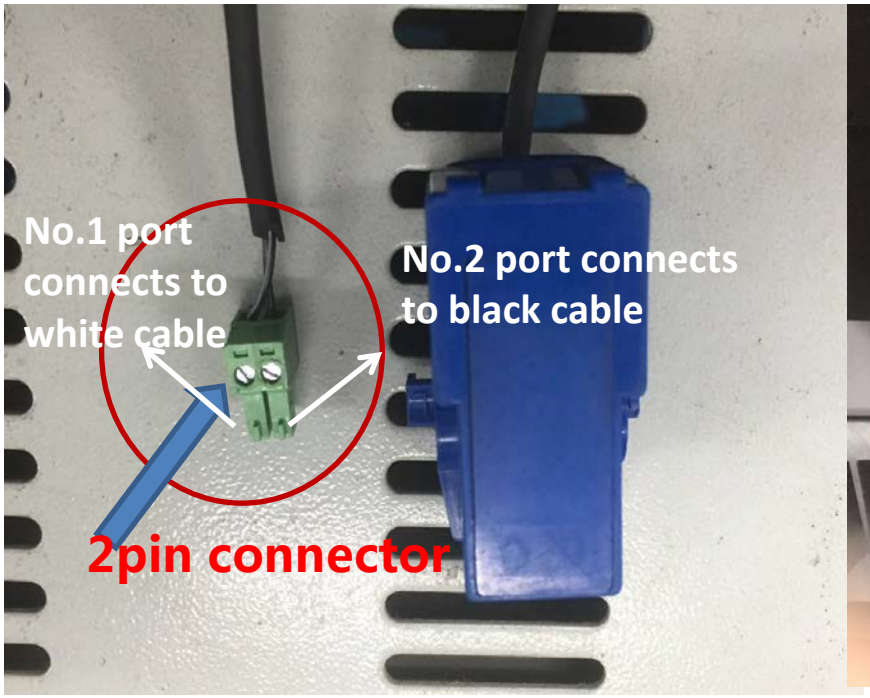
Current Direction K⟶ L ( Load ⟶ Grid )

Picture 2

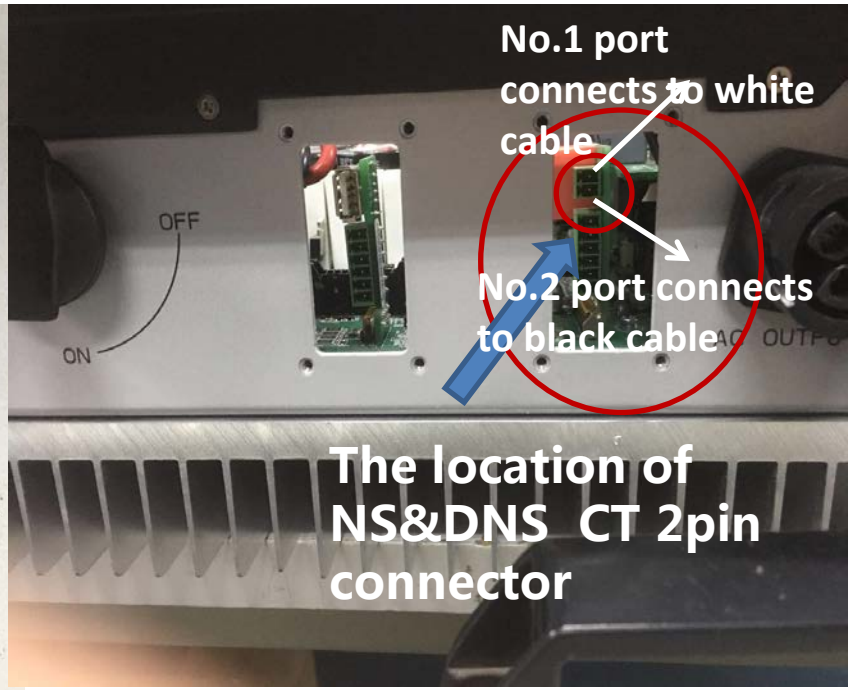
# CT Working Principle & Connection

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



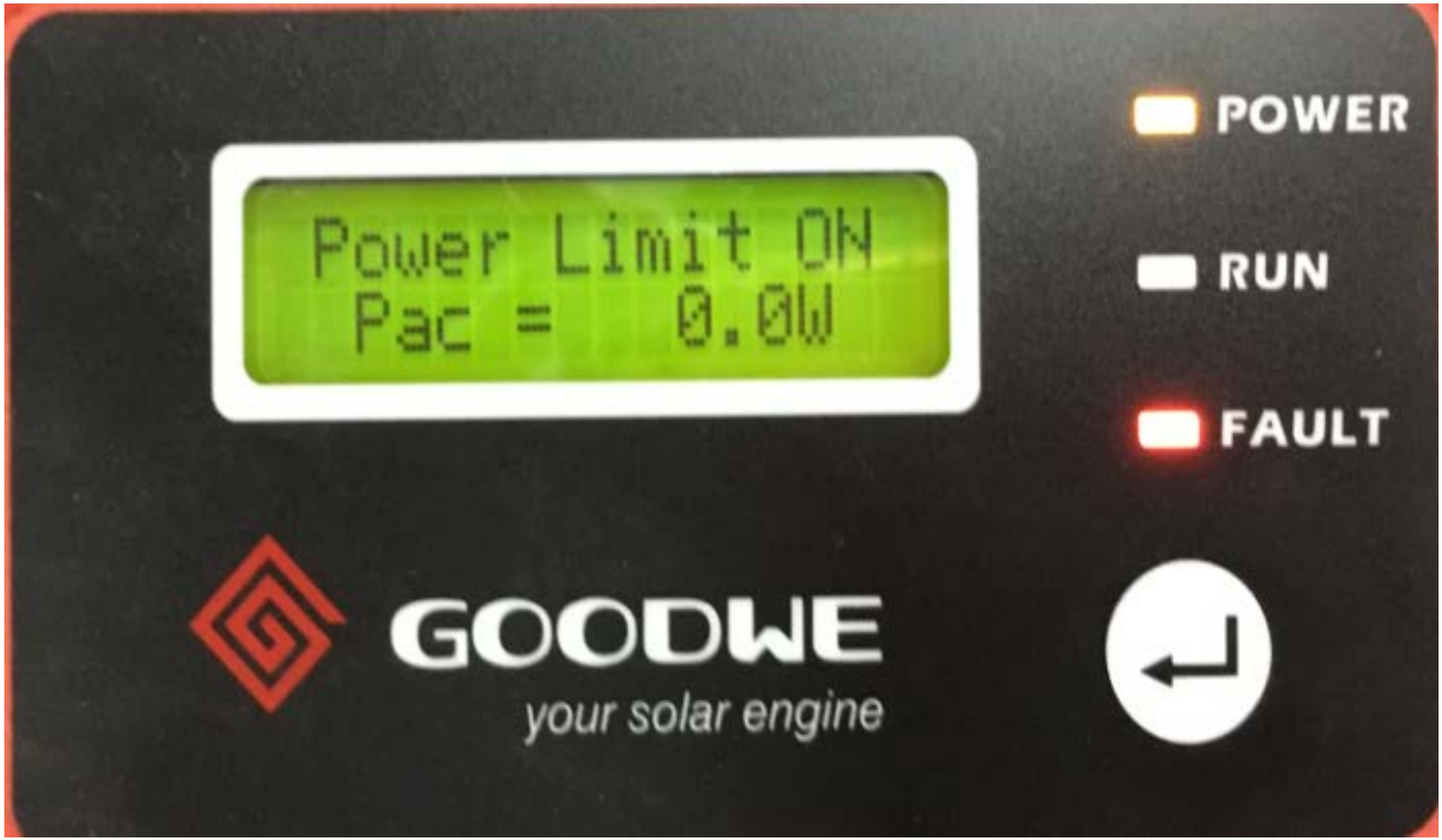

Picture 4

# Power Limit Configuration

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


Power Limit ON
Pac = 0.0W
POWER
RUN
FAULT
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Picture 6

# Power Limit Configuration

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.

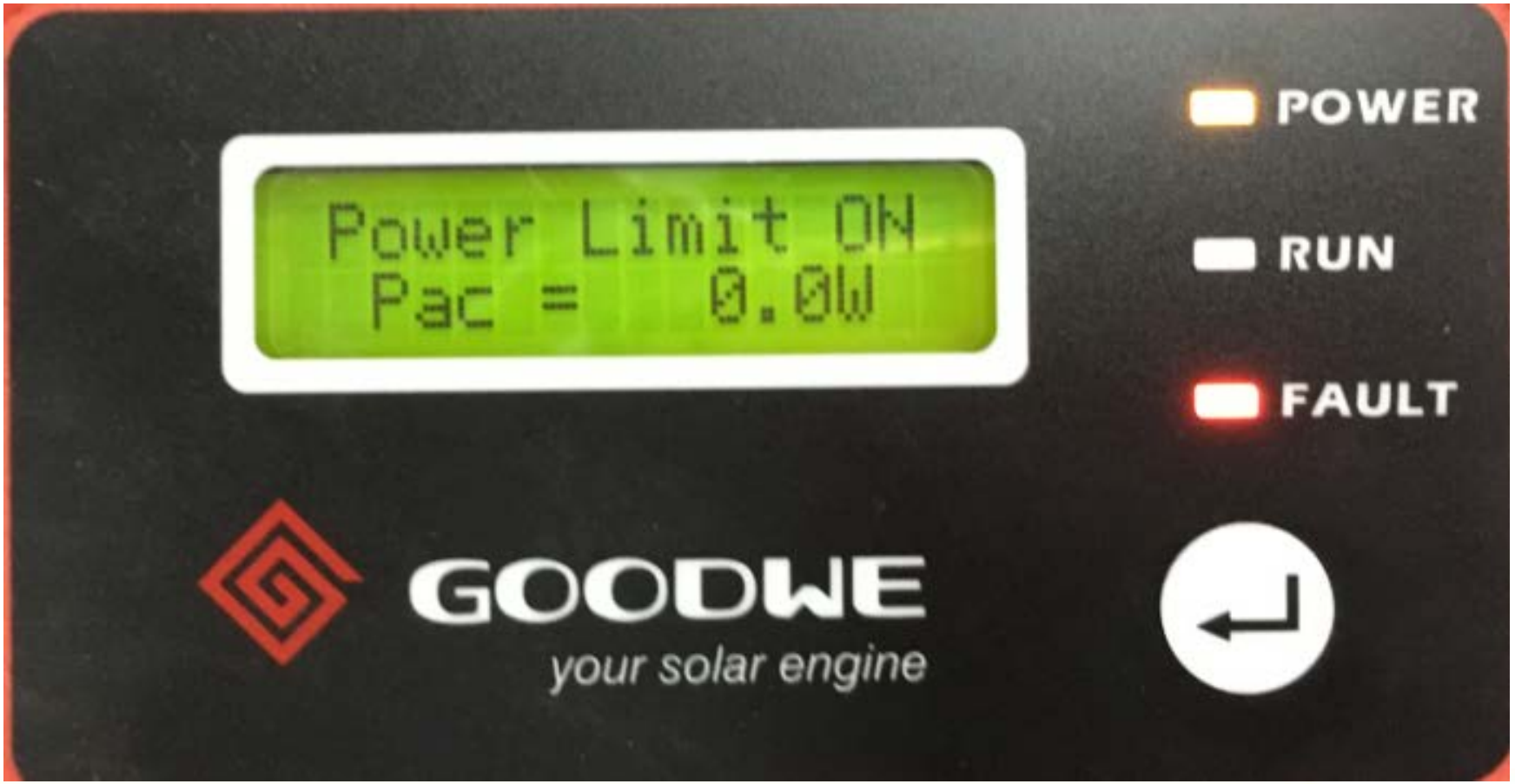
Note : Power to grid = Inverter output power * Limitation percentage.




Picture 7

# Power Limit Configuration

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



# QA

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**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



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