



T50/100 on-grid

Wiring and Setting Procedure

V01

Version Information

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V01	Sept. 19, 2018	New

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1. Product Description

The AlphaESS Storion-T50/T100 energy storage system is an on-/ off-grid system. The excessive energy generated by the PV will be stored in the batteries. The stored energy can be used when the PV is not generating enough energy.

When connected with a generator, it can be used as an off-grid system. If there is neither enough PV supply nor enough stored energy, the loads will be automatically powered by generator through STS (Smart Transform Switch).

The overall system connection diagram is as follows:

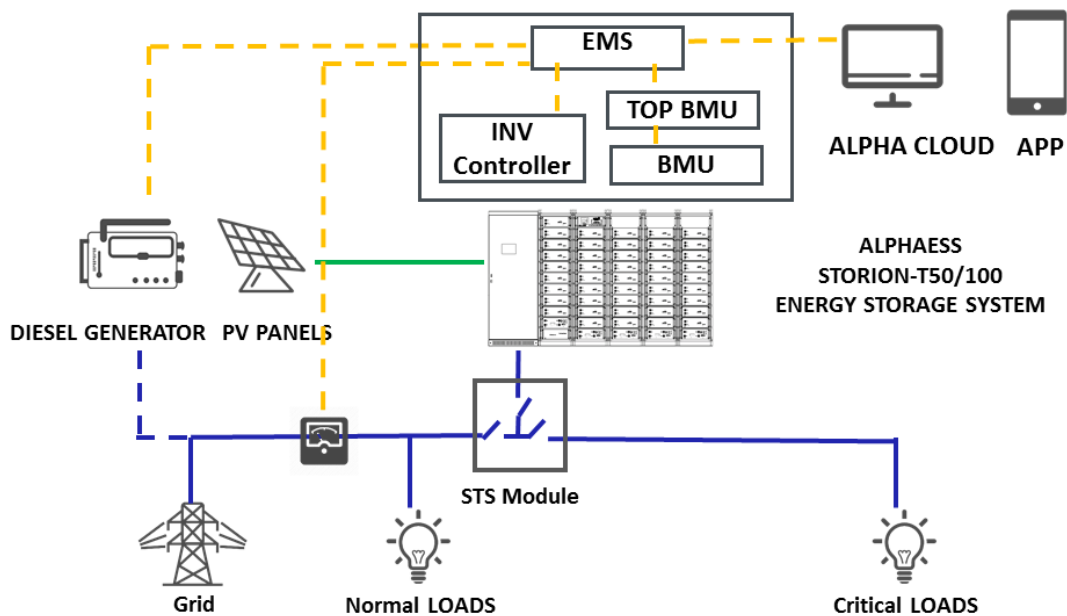


Figure 1.1 System Diagram

1.1 PCS Instruction

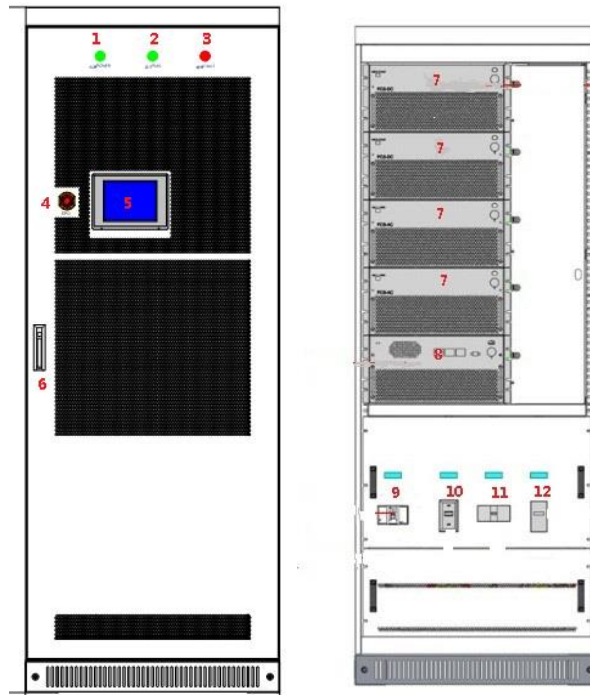


Figure 1.2 Appearance of the PCS

Table 1 Composition of the PCS

No.	Description	No.	Description
1	Power indicator	7	PCS module
2	Normal indicator	8	STS module
3	Fault indicator	9	PV DC switch
4	Scram button	10	Battery switch
5	Display screen	11	Load switch
6	Handle	12	Grid/Diesel switch

2. Wiring

Please refer to the following diagram to connect power cables.

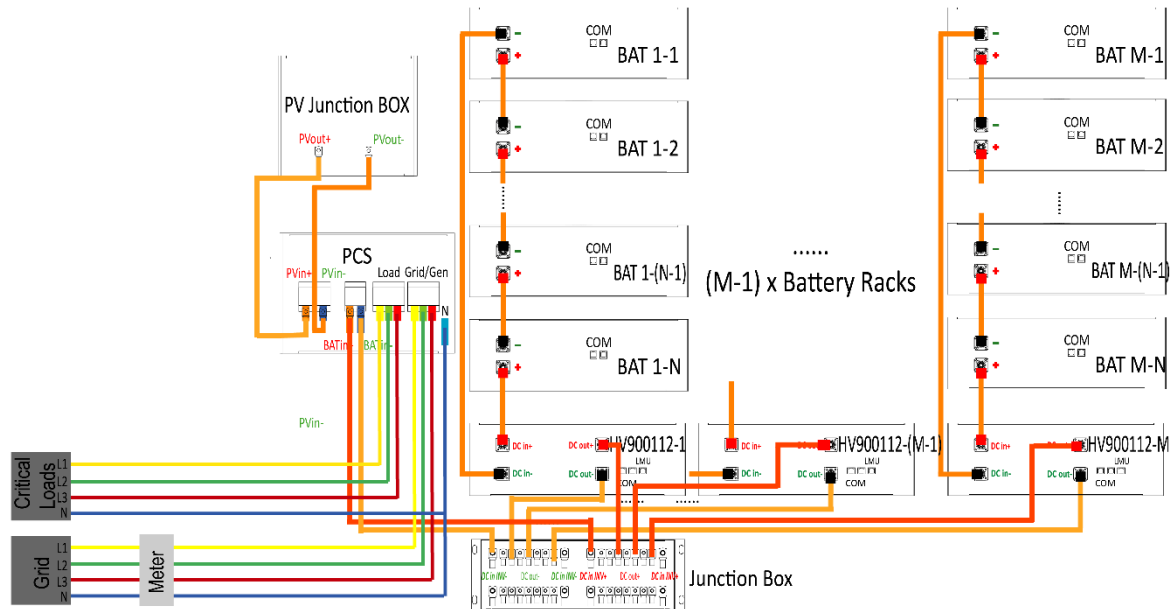


Figure 2.1 Wiring Diagram

Please refer to the following diagram to connect the CT meter.

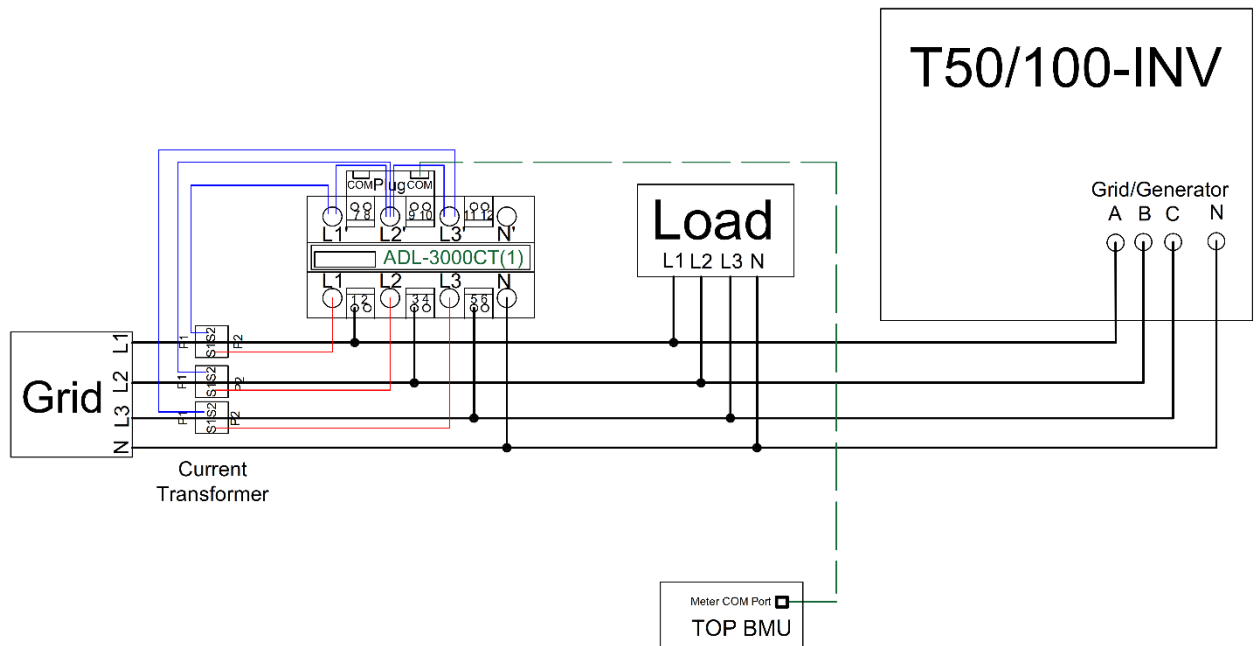


Figure 2.2 CT meter connection

3. Setting

3.1 EMS Setting

Step 1: Enter into EMS menu and get into Setting.

```
>>>> MENU <<<<<
>Setting
Information
```

Step 2: Enter the password (the initial password for installers is 1111).

```
>>> Password <<<
>
1 1 1 1
```

Step 3: get into the Function menu. Choose CT Meter

```
>>> Function <<<
> CT Meter
Generator
PCS
```

Step 4: choose the CT Meter enable as YES

```
>>> CT Meter <<<
> Enable
YES
```

Step 5: set the CT Ratio as 80.

```
>>> CT Meter <<<
> Ratio
80
```

Step 6: get into the Function menu and choose the PCS. Get into the PCS menu and choose the AC Type as AC_Grid.

```
>>> AC_Tied <<<
> Type
AC_Grid
```

Step 7: Make sure in the PCS menu the Minv is the inverter model, such as T50.

```

>>>>   Minv   <<<<
> Type
        T50
    
```

3.2 PCS Setting

Click “login/out” in Android display to enter login interface, enter login password 123456789 and enter main interface of super client. Set in the PCS android display control mode as “remote control”.

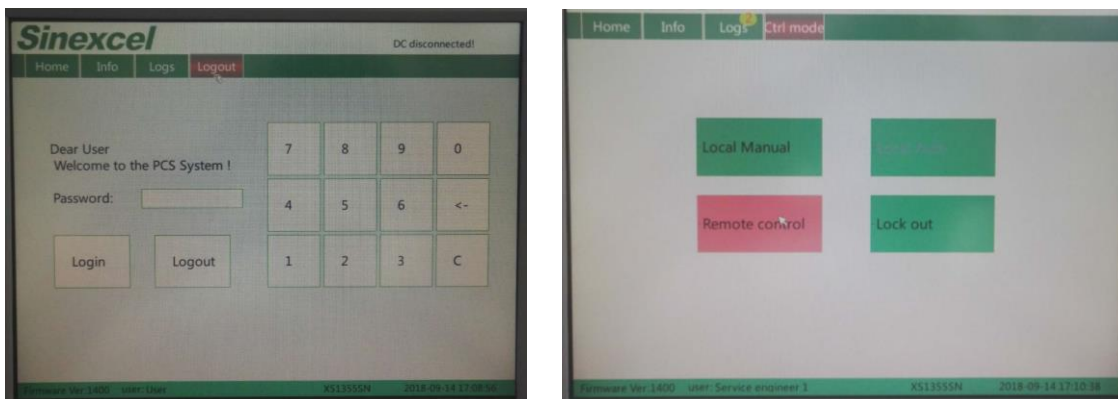


Figure 3.1 PCS display setting