# Single-Phase Meter Installation Guide 

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## 1. Scope

CSI inverters integrate the export limitation function, please read this installation guide to install the single-phase meter and set the inverter. This meter applies to PV inverter models: CSI-3K-S22002-ED, CSI-5K-S22002-ED, CSI-3K-S22002-E, CSI-5K-S22002-E.

## 2 Meter Specification

| Model Name | DDSD 1352 |
| :---: | :--- |
| Grid Topology | $1 \mathrm{P}+\mathrm{N}$ |
| Rated Voltage | 220 V |
| Input Current | $10(60) \mathrm{A}$ |
|  | Voltage $\pm 0.2 \% ;$ <br> Current $\pm 0.2 \% ;$ <br> Accuracy |
| Power (P, Q, S) 0.5\%; <br> Active Energy Class 1; <br> Reactive Energy Class 2 |  |
| Operating Temperature | $-25^{\circ} \mathrm{C} \sim 55^{\circ} \mathrm{C}$ |
| Relative Humidity | $<95 \%($ Non-condensing) |$|$| Dimension (W x H x D, mm) | $36 \times 88 \times 71 \mathrm{~mm}$ |
| :---: | :--- |
| Installation Method | Rail DIN 35mm |




FIG1. Outline and Dimensions of Meter

## 3. Meter installation

### 3.1 System diagram

Note: The meter has to be installed to the grid side.


### 3.2 Wiring signal cable

3.2.1 Wiring signal connector

1) Diagram of connector, as per FIG.3
2) Prepare the Signal Cable

Remove the signal cable's jacket about 23 mm , and then strip the wire insulation layer about 7mm, as per FIG.4.


Pressure Nut Sealing Ring Threaded Sleeve Plug (Metal Pins and shell) FIG. 3 Components of Connector

Recommend the specification of the signal cable:

| Cable Type | Conductor Cross-Sectional Area | Outer Diameter |
| :---: | :---: | :---: |
| Two cores cable. | $0.2-0.75 \mathrm{~mm}^{2}(24 \sim 18 \mathrm{AWG})$ | $3.5 \sim 5.5 \mathrm{~mm}$ |

Note: 1 No cable is supplied with meter. 2. Use signal cable with shield structure.
3) Insert the conductors into the corresponding pins of the plug, and then fix the conductors by screws firmly.

Tool: Phillips screwdriver \#1. Torque: 0.6~0.8N.m.


| Function | METER Connector of inverter | Meter |
| :---: | :---: | :---: |
| $485-\mathrm{A}$ | Pin -1 | Pin -5 |
| $485-\mathrm{B}$ | Pin -2 | Pin -6 |
| GND | Pin -3 (Cable shield layer grounding) | $/$ |

FIG. 5 Pin positions of Connector
4) Tighten the pressure nut, and then push the threaded sleeve into the plug, as per FIG.6.
5) Finally insert the assembled connector into the CT/Meter receptacle on the inverter.


FIG. 7 Insert the connector into receptacle
3.2.2 Wiring signal cable in meter (as per FIG. 2 and FIG. 5 to connect meter)

Tool: Phillips screwdriver \#1; Torque: 0.6~0.8N.m

### 3.3 Wiring electrical cable

Connect electrical cables as per FIG. 2 and following sheet. More detail information, refer to inverter user manual.
Tools: Phillips screwdriver \#2; Torque: 1.2~1.6N.m.

| AC connector of inverter | Meter | GRID |
| :---: | :---: | :---: |
| Pole -L | Pole -L |  |
| Pole -N | Pole -N |  |
|  | Pole $-\mathrm{L}^{\prime}$ | Pole -L |
|  | Pole $-\mathrm{N}^{\prime}$ | Pole -N |
| Pole -PE | $/$ | Pole - PE |

### 3.4 Setting on the inverter (default setting is "OFF")

1) Enter CSI CloudPro APP;
2) Enter the "Local Mode", as per FIG.8;
3) Scan the QR code of WiFi stick or input the serial number of WiFi stick manually. Then connect to the AP of WiFi stick, as per FIG.9;
4) Enter the "Parameters" page (password "000000");
5) Enter the "EPM" page:

Set "EPM Mode" to "Meter in Grid";
Set all the parameters refer to the local requirement, as per FIG. 10 (such as "EPM power setting", "Fail safe Power Setting" etc.)
6) Exit local mode.

Please refer to CSI CloudPro APP User Manual for CSI CloudPro App details,


FIG. 8 Enter local Mode


FIG. 9 Connect to WiFi stick


FIG. 10 Default setting of EPM page

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