

CSI-7K-S22002-E CSI-8K-S22002-E CSI-9K-S22002-E (1.5G) CSI-9K-S22002-E(1.5G) CSI-7K-S22003-E(1.5G) CSI-9K-S22003-E(1.5G)



PV Inverter User Manual

(Part No.: 2809001803 Release Date: July, 2022)

Contents

1 Introduction	
1.1 General Information	1
1.2 User Manual Disclaimer	
1.3 Limitation Of Liability	
1.4 Target Group	1
1.5 Symbol Conventions	1
1.5.1 Warnings In The Manual	1
1.5.2 Labels On Product And Packaging	2
2 Safety Instruction	2
2.1 General Safety	2
2.2 Notice For Use	2
2.2.1 Personnel Requirements	2
2.2.2 Operation Requirements	2
2.2.3 Protecting Labels	2
3 Product Overview	
3.1 Product Introduction	3
3 2 Annearance	3
3.3 Product Nameplate	4
4 Storage	5
5 Unpacking And Inspection	
6 Installation	
6.1 Basic Installation Requirements	6
6.2 Mounting Wall-Mounting Bracket	
6.3 Installing Inverter	8
7 Electrical Connection	9
7.1 Safety	9
7.2 Recommended Cables	9
7.3 Meter / CT Connection (Optional)	9
7.4 Wiring Pe Cable	9
7.5 Wiring Ac Output	10
7.6 Wiring Dc Input	
7.6.1 Requirement For Dc Input	
7.6.2 Wiring	
7.6.3 Connecting Pv Array (Dc Input)	
7.7 DRED Port Connections	
8 Communication	15
8.1 Communication Mode	
8.2 External Wifi	
8.3 Rs485	15
9 CSI Cloudpro App	
10 Commissioning Inverter	

10.1 Electrical Increastion	45
10.1 Electrical Inspection	15
10.2 Mechanical Inspection	15
10.5 Start-Op Inverter	15
10.5 Switch Off	10
11 Daily Maintenance	10
	10
12 Trouble-Shooting	17
12.1 Warning	17
12.2 Errors	17
13 Handling The Inverter	18
13.1 Removing Inverter	18
13.2 Packing Inverter	18
13.3 Disposing Inverter	18
Appendix A: Acronyms And Abbreviations	19
Appendix B: Specification	20
Appendix C: CT Installation Manual Guide	22
1. Scope	22
2. CT Specification	22
3. CT Installation	22
3.1 System Diagram	22
3.2 Wiring Signal Cable	22
3.3 Install The CT	23
3.4 Setting On The Inverter (Default Setting Is "Off")	23
Appendix D: Single-Phase Meter Installation Guide	24
1. Scope	24
2 Meter Specification	24
3. Meter Installation	24
3.1 System Diagram	24
3.2 Wiring Signal Cable	24
3.3 Wiring Electrical Cable	25
3.4 Setting On The Inverter (Default Setting Is "Off")	25
Annex E: Csi Cloudpro App	26
1 App Introduction	26
2 Download And Install The App	26
3 Use The Local Mode To Login The App	26

1 Introduction

1.1 General Information

This manual provides important safety information on relating to the installation, maintenance and usage of single phase PV inverters. Both users and professional installers must read these guidelines carefully and strictly follow these instructions. Failure to follow these instructions may result in death, serious injury or property damage. Only qualified professionals and service personnel can do the installation and operation (refer to 62109-1). Installers must inform end-users (consumers) about the aforesaid information accordingly. This manual is only valid for the PV inverter types, CSI-7K-S22002-E, CSI-8K-S22002-E, CSI-9K-S22002-E, CSI-7K-S22002-E(1.5G), CSI-9K-S22002-E(1.5G), CSI-7K-S22003-E(1.5G), CSI-9K-S22003-E(1.5G).

1.2 User Manual Disclaimer

The information contained in this manual is subject to change by CSI Solar Co., Ltd. without prior notice. CSI Solar Co., Ltd. gives no warranty of any kind whatsoever, either explicitly or implicitly, with respect to the information contained herein.

In the event of any inconsistency among different language versions of this document, the English version shall prevail. Please refer to our product lists and documents published on our website at: http://www.csisolar.com as these lists are updated on a regular basis.

1.3 Limitation of Liability

CSI Solar Co., Ltd. shall not be held responsible for damages of any kind, including-without limitation-bodily harm, injury or damage to property, in connection with handling PV inverters, system installation, or compliance or non-compliance with the instructions set forth in this manual.

1.4 Target Group

This document is intended for installers and users.

1.5 Symbol Conventions

The symbols that may be found in this document or on the product packaging are defined as follows.

1.5.1 Warnings in the manual

A warning describes a hazard to equipment or personnel. It calls attention to procedure or practice.

Symbol	Description
DANGER	DANGER indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.
WARNING	WARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
CAUTION	CAUTION indicates a potentially hazardous situation which, if not avoided, could result in minor or moderate injury.
NOTICE	NOTICE indicates a situation which, if not avoided, could result in equipment or property damage.
Information	Information indicates that you must read carefully to ensure optimal operation of the system.

1.5.2 Labels on product and packaging

Symbol	Description
	Hot surfaces! Risk of burns due to bot components!
<u>A</u>	Danger to life due to high voltage!
A Common	Time need to discharge stored energy in the capacitors.
	Grounding
	Direct Current (DC)
\langle	Alternating Current (AC)
	Check the user manual before service.
€	CE mark.
	WEEE designation.

2 Safety Instruction

2.1 General Safety

The Inverter has been designed and tested strictly according to the international safety codes, however, certain safety precautions must be observed when installing and operating this inverter. Read and follow all the instructions, cautions and warnings in this user manual carefully before any work and keep this manual for future reference.

2.2 Notice for Use

2.2.1 Personnel requirements

Only qualified personnel are allowed to install and commission the inverter, they should:

1) Receive professional training and get the authorization.

2) Be familiar with the safety specification about the electrical system.

3) Be familiar with the local requirements, rules and regulations.

4) Understand the composition and working principles of the grid-tied PV system.

2.2.2 Operation requirements

Use the inverter in installations that meet the following specifications only.

- 1) Permanent installation is required.
- 2) The electrical installation must meet all the applications and standards.
- 3) The inverter must be installed according to the instructions stated in this manual.

4) The inverter must be installed according to the correct technical specifications.

5) To startup the inverter, the Grid Main Switch (AC) must be switched on, before the solar panel's DC solar switched on. To stop the inverter, the Grid Supply Main Switch (AC) must be switched off, before the solar panel's DC isolator switched off.

2.2.3 Protecting labels

1) Do not scrawl or damage any labels on the inverter enclosure, because these labels contain important information about safe operation.

2) Do not scrawl or damage the nameplate on the inverter enclosure, because the nameplate contains important product information.

3 Product Overview

3.1 Product Introduction

The inverters are single-phase gird-connected PV string inverters without transformer, which can convert the DC power from the photovoltaic (PV) strings into alternating current (AC) power, and feed the power into the power grid. This document involves the following product models:

CSI-7K-S22002-E, CSI-8K-S22002-E, CSI-9K-S22002-E, CSI-7K-S22002-E(1.5G), CSI-9K-S22002-E(1.5G),

CSI-7K-S22003-E(1.5G), CSI-9K-S22003-E(1.5G).

PV grid-connected system mainly includes PV modules, DC switch, inverter, AC switch, electricity meter, and local grid. The PV power system diagram is shown as FIG.3-1.



FIG. 3-1 PV Power System Diagram

3.2 Appearance

Front view and bottom view



FIG. 3-2 Product Appearance

Series CanadianSolar

Object	Name	Description
А	LED indicator	Indicates inverter operation status.
В	DC disconnect switch	Disconnects the DC current safely.
С	DC input connectors	/
D	DRM receptacle (optional)	/
E	Communication port	Connects wireless datalogger (WiFi or GPRS), RS485.
F	Waterproof and breathable valve	/
G	CT/Meter receptacle (optional)	Connects CT or Meter.
Н	AC receptacle	Jack/Receptacle for AC/grid connection.
Ι	External ground point	/

3.3 Product Nameplate

The nameplate provides a unique identification of the inverter (Product type, device -specific characteristics, certificates and approvals).

The nameplate is on the left side of the enclosure.

St Canad	dianSolar
Product Name: Grid-	connected PV Inverter
Model Number:	CSI-7K-S22002-E
Vmax. PV(absolute max	(.): 600V dc
MPPT Voltage Range:	100~500V dc
Max. Input Current:	15/30 A dc
Max. Short-Circuit Curre	ent: 18.8/37.6 A dc
Rated Output Power:	7000W
AC Nominal Voltage:	220/240V ac
AC Nominal Frequency	: 50/60Hz
Max.Output Current:	31.8 A ac
Power Factor: > 0.99(0.8	8 leading0.8 lagging)
Overvoltage Class:	II(DC), III(AC)
Degree of Protection:	IP65
OperatingTemperature	Range: -25°C+60°C
LED Ind	licators
Steady Green	Normal
🔆 Blinking Green Waiting	
Steady Red Error	
Off	No DC Input
More details, ple to the user manu (Scan the QR coo	ase refer Ial. (QR code) de)

St Cana	dianSolar
Product Name: Grid-	connected PV Inverter
Model Number:	CSI-7K-S22003-E
Vmax. PV(absolute max	x.): 600V dc
MPPT Voltage Range:	100~500V dc
Max. Input Current: 15/30 A	
Max. Short-Circuit Curr	ent: 18.8/37.6 A dc
Rated Output Power:	7000W
AC Nominal Voltage:	220/240V ac
AC Nominal Frequency	r: 50/60Hz
Max.Output Current:	31.8 A ac
Power Factor: > 0.99(0.8	8 leading0.8 lagging)
Overvoltage Class:	II(DC), III(AC)
Degree of Protection:	IP65
OperatingTemperature	Range: -25°C+60°C
LED Inc	licators
Steady Green	Normal
🔆 Blinking Green	Waiting
Steady Red Error	
Off No DC Input	
More details, ple to the user manu (Scan the QR con	ease refer ual. (QR code) de)

Product Name: Grid-	connected PV Inverter	Product Name: Grid-con	nected PV Inve
Nodel Number:	CSI-9K-S22002-E	Model Number:	CSI-9K-S2200
/max. PV(absolute max	د.): 600V dc	Vmax. PV(absolute max.):	600
PPT Voltage Range:	100~500V dc	MPPT Voltage Range:	100~500
ax. Input Current:	15/30 A dc	Max. Input Current:	15/30 /
ax. Short-Circuit Curr	ent: 18.8/37.6 A dc	Max. Short-Circuit Current	: 18.8/37.6
ated Output Power:	9000W	Rated Output Power:	900
C Nominal Voltage:	220/240V ac	AC Nominal Voltage:	220/240
C Nominal Frequency	: 50/60Hz	AC Nominal Frequency:	50/6
lax.Output Current:	40.9 A ac	Max.Output Current:	40.9
ower Factor: > 0.99(0.8	3 leading0.8 lagging)	Power Factor: > 0.99(0.8 le	ading0.8 lagg
Overvoltage Class:	II(DC), III(AC)	Overvoltage Class:	ll(DC), Ill
Degree of Protection:	IP65	Degree of Protection:	
OperatingTemperature	Dammar 25°C COPC	•	
	Smins	OperatingTemperature Ra	nge: -25°C+(
	Range25 C+60 C Smins	OperatingTemperature Ra	nge: -25°C+(
	Image: -25°C:+60°C Smins Image: -25°C:+60°C Smins Image: -25°C:+60°C Smins Image: -25°C:+60°C Image: -25°C:+60°C Smins Image: -25°C:+60°C Image: -25°C:+60°C	OperatingTemperature Ra	nge: -25°C+6
CE	Image: -25 C+60 C Image: -25 C+60 C Image: -50 C <td>OperatingTemperature Ra</td> <td>nge: -25°C+6</td>	OperatingTemperature Ra	nge: -25°C+6
CE	Range25 C+60 C Smins Smins Image: -25 C+60 C Smins Image: -25 C+60 C Smins Smins Image: -25 C+60 C Image: -25 C+60 C Smins Image: -25 C+60 C	OperatingTemperature Ra	nge: -25°C+6
CE i A A A LED Inc Steady Green Hinking Green Steady Red	Image: -25°C:+60°C Smins Smins Image: -25°C:+60°C Smins Smins Image: -25°C:+60°C Smins Smins Image: -25°C:+60°C Smins Image: -25°C:+60°C Smins Image: -25°C:+60°C Image: -25°C:+60°C -	OperatingTemperature Ra	nge: -25°C+6
CE A A LED Inc Steady Green Steady Red Off	Image: -25°C:+60°C Smins Smins Image: -25°C:+60°C Smins Smins Image: -25°C:+60°C Smins Image: -25°C:+60°C Smins Image: -25°C:+60°C Image: -25°C:	OperatingTemperature Ra	nge: -25°C+6

FIG.3-3 Inverter Nameplate (for reference)

4 Storage

The following requirements should be met when the inverters need to be stored:

Do not unpack the inverter.

Storage temperature: -40°C ~ +70°C.

Storage humidity: 0% ~ 100%RH (Non-Condensing).

The warehouse should be clean, well-ventilated, and non-corrosive gas (corrosive or flammable gases), meanwhile it should be accessible all the time.

No smoking, no illegal use of electricity and fire.

When storing inverters, do not stack more than the allowed layers to avoid damage, which number marked on the product packaging.

Do not tilt the package or place it upside down.

Regular inspection is required during the storage.

After long periods storage, the inverters need to be inspected and tested by technical Engineer before they are put into use.

5 Unpacking and Inspection

Before unpacking the inverter, check the package appearance thoroughly, such as for holes and cracks, and check the inverter model accordingly. If you discover any damage to the packaging which indicates the inverter may have been damaged, or the inverter model is not the one you requested, do not unpack the product and contact your dealer immediately.

After opening the package, check all of the accessories carefully in the carton. If any damage is found or any component is missing, contact your local installer.

Notice:

- 1) For component details, see the packing list document in the packing case.
- 2) Need two persons to carry the inverter.



6 Installation

6.1 Basic Installation Requirements

1) Do not install the inverter on the structures constructed of flammable, thermolabile or explosive materials.

2) The installation surface must be strong enough to bear the inverter's weight for a long period time. (Please check the inverter's weight in the product specification of Appendix B).

3) The inverter is protected to IP65, can be installed indoors and outdoors.

4) The humidity of the installation location should be below 100% without condensation.

5) The ambient temperature should be between -25°C to 60°C.

6) Install at eye-level for easy operation.

7) Do not install the inverter near television antenna or any other antennas and antenna cables.

8) Ensure the inverter is out of children's reach.

9) Install inverter at the locations with some cover or protection, to ensure the optimum operation, as per FIG.6-1.

10) Do not install in small closed cabinet where air cannot circulate freely. Do not put any other objects on the inverter, as per FIG.6-2.



FIG.6-1 Inverter Installation Positions



FIG.6-2 Forbid to Install in Small Closed Cabinet

11) Comply with the Min. clearance to walls, other inverters, or objects to ensure the installation and maintenance, meanwhile for the good heat dissipation.





FIG.6-4 Staggered Installation Mode (Recommended)

12) Install the inverter vertically or at a maximum backward tilted angle of 15 degrees to facilitate heat dissipation, and to ensure that no moisture can penetrate the product.



FIG.6-5 Installation Angle Requirements

13) Do not install the inverter outdoors in salt, sulfur or other corrosive areas.

The inverter would be corroded in salt area (i.e. marine environments), and the corrosion may cause fire. Salt area refers to the region within 500 meters from the coast.

Please consult the CSI Solar Co., Ltd. technical support department on the use of inverters in special climates (i.e. salt, sulfur, or ammonia areas) which may affect the product warranty.

14) Need two persons to install the inverter.

Series CanadianSolar

6.2 Mounting Wall-mounting Bracket



To avoid electrical shock or other injury, please inspect existing electronic or plumbing installations before drilling holes.

Procedure:

1) Use the wall-mounting bracket as a template and mark the positions of the drill holes, then drill the 4 holes accordingly, as per FIG. 6-6. (Diameter = 11mm, Depth ≥ 55 mm).

Note: The external dimensions ($W \times H$) of inverter are shown as a dashed line in FIG. 6-6.



FIG.6-6 Drilling Positions (W x H, 399 x 446mm)

2) Drill expansion anchors into the corresponding four holes, and then fix the wall-mounting bracket to the wall with self-tapping screws (spec, ST 6.3 x 50), as per FIG. 6-7 & FIG. 6-8.



FIG.6-7 Install Expansion Anchors



FIG.6-8 Fix Wall-mounting Bracket

6.3 Installing Inverter

Note: It must be ensured that the wall-mounting bracket is properly fixed was accurately mounted fixed to the wall before installing the inverter.

Installation steps:

1) Hang the inverter on wall-mounting bracket. Keep balance during the operation to prevent device damage from colliding with walls or obstacles, as per FIG. 6-9.

2) Use two safety bolts to fix both sides of inverter to ensure the inverter fixed to the wall firmly, as per FIG. 6-10.





FIG. 6-9 Hang the Inverter on Wall-mounting Bracket

FIG. 6-10 Fix Both Sides of Inverter

7 Electrical Connection

7.1 Safety



Danger to life due to lethal voltages in the inverter! Before performing any work on the inverter, must disconnect both AC and DC sides.

Damage to electronic components may happen due to electrostatic discharge. Take appropriate ESD precautions when replacing and installing the inverter.

7.2 Recommended Cables

Cable Name	Cable Type	Conductor Cross-Sectional Area	Outer Diameter
DC input cable	PV cable, above 600V.	4~6mm ²	5.5~7.4mm
AC output cable	Three cores outdoor cable with copper conductor (L, N, PE).	6~16mm²	13~18mm
PE cable	Single core outdoor cable with copper conductor.	6mm ²	N/A

Note: No cable is supplied.

7.3 Meter / CT Connection (Optional)

The inverter has integrated export limitation functionality. To use this function, a power meter or a CT must be installed.

For installation and operation methods, see Appendix part of meter and CT installation guides.

7.4 Wiring PE Cable

To achieve ground protection purpose, the inverter must be connected to the AC grounding conductor of the utility grid via PE cable.



Because of the transformerless design, the DC positive pole and DC negative pole of PV arrays cannot do grounding.

Note: The PE point at the AC output point is used only as a PE equipotential point, and cannot substitute for the PE point on the enclosure.

Procedure:

- 1) Insert the grounding conductor into the suitable terminal lug and crimp the contact.
- 2) Fix terminal lug on external ground point by screw M4x10. Torque: 1.4 N.m.



FIG. 7-1 External Grounding Point Position

Note:

There will be a buzzer sound if the grounding improperly.

Line CanadianSolar

7.5 Wiring AC Output



To ensure the inverter can be safely disconnected with load, must install a separate single-phase circuit-breaker or other load disconnection unit for each inverter.

Note: The inverter is equipped with integrated RCM (Residual current operated monitor) and RCD (Residual current protective device). The rated residual current of the circuit breaker must be over 300mA when the AC circuit breaker with RCM function selected.



Notice

The total capacity of PV-inverter is more than 3KW and less than or equal 6KW, the inverter's

displacement power factor is adjustable between 0.95 leading to 0.95 lagging, and do not need external SPI.

The total capacity of PV-inverter is more than 6KW, the inverter's displacement power factor is adjustable between 0.9 leading to 0.9 lagging, meanwhile need external SPI.

Install an independent two-pole circuit breaker at the output side of the inverter for protection, the recommended AC circuit-breaker specifications are as follows:

Inverter type	AC circuit-breaker specifications
CSI-7K-S22002-E	
CSI-7K-S22002-E(1.5G)	40 A
CSI-7K-S22003-E(1.5G)	
CSI-8K-S22002-E	
CSI-9K-S22002-E	F0 A
CSI-9K-S22002-E(1.5G)	50 A
CSI-9K-S22003-E(1.5G)	

Recommend maximum AC cable length:

Conductor cross section Allowed Max. length			
Inverter Type	6.0 mm ²	10.0 mm ²	16.0 mm ²
CSI-7K-S22002-E	22 (m)		00 ()
CSI-7K-S22002-E(1.5G) CSI-7K-S22003-E(1.5G)	33 (m)	56 (m)	89 (m)
CSI-8K-S22002-E	29 (m)	48 (m)	77 (m)
CSI-9K-S22002-E	26 (m)	42 (100)	69 (m)
CSI-9K-S22002-E(1.5G) CSI-9K-S22003-E(1.5G)	26 (11)	43 (m)	

AC Three-core cable:

The grid connection is established by using three-core cable (L, N, and PE, as per FIG. 7-4).

Components of AC connector (7-9KW) :

The AC connector is made of four components: pressure nut, sealing ring, threaded sleeve, plug.







Pressure Nut

Sealing Ring

Threaded Sleeve Plu

Plug (Metal pins and shell)

FIG. 7-2 Components of Connector

AC connectors have two types, EXCEEDCONN type or DEVALAN type, follow-up procedure:

1) Strip the cable's jacket, and then adjust the relative length of L, N and PE cables, to make the length of PE cable is at least 5mm longer than L and N ones, as per FIG. 7-3.





CanadianSolar

EXCEEDCONN type

FIG. 7-3 Adjust the Cable Length

2) When using flexible cables, the conductor must be connected with suitable core end ferrules according to DIN 46228-4, as per FIG. 7-4.





DEVALAN type

FIG. 7-4 Crimp the Three-core's Ferrule

Insert the L, N, and PE conductors into the corresponding pins of the plug (as per FIG. 7-5), then tighten the fastening screws by screwdriver to fix conductors firmly.

9KW (Torque 0.8N.m) :









FIG. 7-5 AC Terminal Positions

3) Push the threaded sleeve into the plug, screw the press nut tightly.



FIG. 7-6 Tightening the AC Connector

4) Finally, insert the AC connector into the corresponding AC receptacle on the inverter. Pay attention to the polarities to make sure the correct assembling.



FIG. 7-7 Installing the AC Connector

7.6 Wiring DC Input

Note: The DC connectors are in paired (negative and positive ones). Pay attention to the polarities when assembling.



FIG. 7-8 DC Input Connectors

7.6.1 Requirement for DC input

These single-phase inverters are equipped with two MPP trackers.

Requirements for PV module strings:

1) Same type PV modules for each string.

2) The power, voltage (startup and open-circuit voltage) and operating current of each PV strings must meet the allowable value of the inverter.

Note: Consider temperature coefficient of the PV modules.

Check the inverter specification in section Appendix B.

7.6.2 Wiring

Procedure steps

Step 1: Strip the insulation from each DC cable by 7mm.

Step 2: Assemble the cable ends with the crimping pliers

Step 3: Lead the cable through cable gland, and insert into the insulator until it snaps into place.

Gently pull the cable backward to ensure firm connection. Tighten the cable gland and

the insulator (torque 2.5 N.m to 3 N.m).

Step 4: Check for polarity correctness.

The inverter will not function properly if any PV polarity is reversed.

Se CanadianSolar



FIG. 7-9 Wiring DC Input

5) Insert the assembled connectors into the bottom terminal of the inverter until one sound click audibly.

The locked DC connectors can only be disconnected with special tool.



FIG. 7-10 Illustration of DC Ports

7.6.3 Connecting PV array (DC input)

	Ensure the DC switch and AC breaker both are disconnected from the inverter before connect the PV
	arrays.
Damara	Never connect PV array positive or negative pole to the ground, it could cause serious damages to the
Danger	inverter.
	Improper operation during the wiring process can cause fatal injury to the operator or unrecoverable damage to the inverter.
Warning	Only qualified personnel can perform the wiring work.

7.7 DRED port connections

This inverter is complied with the demand response mode (DRM, refer to AS/NZS 4777.2:2020), and RJ45 socket is used for as DRED connection.

Connector pin definitions:

PIN	Assignment for inverter capable of both charging and discharging	Pin assignments front view
1	DRM 5	
2	DRM 6	
3	DRM 7	8

RJ45 Socket

<u> と CanadianSolar</u>

4	DRM 8
5	RefGen
6	COM / DRM 0
7	1
8	1

Methods for asserting demand response modes:

Mode	RJ45 socket Asserted by sl	norting pins	Requirement	
DRM 0	5	6	Operate the disconnection device.	
DRM 5	1	5	Do not generate power.	
DRM 6	2	5	Do not generate at more than 50% of rated power.	
DRM 7	3	5	Do not generate at more than 75% of rated power. And sink reactive power if capable.	
DRM 8	4	5	Increase power generation (subject to constraints from other active DRM)	

Note: Only DRM 0 command supported.

The DRM connector is made of four components: sealing nut, sealing ring, threaded sleeve, plug.









Sealing Nut

Sealing Ring Threaded Sleeve FIG. 7-16 Components of DRM Connector Shim

Procedure steps:

1) Route the network cable through threaded sleeve;



FIG. 7-17 Route the Network Cable

2) Prepare the RJ45 plug according to the line sequence;



FIG. 7-18 Prepare the RJ45 Plug

3) Insert the RJ45 plug kit to the DRM receptacle on the inverter, and tighten the locknut;

8 Communication

8.1 Communication Mode

Two communication patterns for option: WiFi data logger, RS485 (Built-in module).

8.2 External WiFi

More details for installation and operation methods please refer to the WiFi data logger user manual.



FIG. 8-1 Communication Port

8.3 RS485

Connect the communication port with a RS485-to-usb port converter via RS485 serial line, and then connect this module to PC.

9 CSI CloudPro APP

For more detailed information about this APP, please refer to ANNEX E: CSI CloudPro APP.

10 Commissioning Inverter

10.1 Electrical Inspection

1) Check PE connections with multi-meter:

To make sure all the bare metal surfaces of the inverter are grounded.

2) Check DC voltage value:

Check if the DC voltage of the PV string exceeds the allowable range.

3) Check the polarities of the DC voltage:

To make sure the DC polarities are correct.

4) Check the ground insulation of PV array with multi-meter:

Ensure the impedance value of ground insulation is more than 1MOhm.

10.2 Mechanical Inspection

1) Ensure the inverter is installed properly, fixed with a Wall-mounting bracket firmly, and the upper cover is installed correctly.

2) Ensure the AC connectors are installed properly and fixed firmly.

3) Ensure the dust covers are sealed reliably which are used for the empty DC connectors.

4) Ensure all the cables are connected effectively, fixed firmly, and no visible damages to the insulation layers.

10.3 Start-up Inverter

After electrical and mechanical inspections, first turn on the AC main switch/breaker, then turn on the DC switch. The inverter will start automatically when the DC input voltage meets the performance requirement of the utility grid. Normally there will be three statuses during the operation (refer to the LED indications):

1) Waiting:

Conditions: The initial DC voltage of the PV strings is greater than the Min. DC input voltage, but is lower than the DC

Left CanadianSolar

start-up input voltage.

Inverter cannot start-up normally and cannot feed power into utility grid either.

2) Checking:

Conditions: The initial voltage of the PV strings exceeds the start-up DC input voltage of the inverter. Meanwhile both the voltage and frequency of the utility grid are normal.

Inverter will check the feeding conditions immediately. If anything wrong during checking, inverter will switch to the "Fault" mode.

3) Normal:

Conditions: All the checking results are normal.

Inverter will switch to "Normal" mode and feed power into utility grid.

The inverter may turn on and off continuously during the period of low or absent sunlight due to the shortage of power generated by the PV modules. If such fault occurs frequently, please contact the maintenance personnel.

10.4 LED Indicators

No.	Operate states	LED Indicators	Flicker frequency
1	Wait	Green LED flicker	1s On,1s Off
2	Normal	Green LED always on	/
3	Error	Red LED always on	/

10.5 Switch off



Never connect or disconnect the DC connectors under load.

Procedure:

1) Turn off the AC main switch.

2) Turn off the DC switch.

3) Check the inverter operating status.

4) Wait until LED indicator has gone out, which indicates the inverter has been shut down.

11 Daily Maintenance

DANGER	 Risk of inverter damage or personal injury due to incorrect service! Always keep in mind that the inverter is powered by dual sources: PV array and utility grid. Before any service work, observe the following procedure. 1) Disconnect the inverter from the utility grid side first and then PV array. 2) Wait at least 5 minutes after shut down the inverter, for inner capacitors to discharge completely. 3) Verify that no voltage and current existing with appropriate testing devices.
CAUTION	Keep non-related persons away! A temporary warning sign or barrier must be posted to keep non-related persons away while performing electrical connection and service work.
NOTICE	Risk of inverter damage if it is improperly serviced. Use accessories and spare parts approved by the inverter manufacturer only. Never modify the inverter or other components of the inverter. The loss of any or all warranty rights may follow if otherwise.
NOTICE	Any malfunction that may impair the inverter safety operation must be repaired immediately before the inverter is restarted. Inverter contains no customer serviceable parts inside. Please contact local authorized personnel if any service work is required.
Information	Servicing of the device in accordance with the manual should never be undertaken in the absence of proper tools, test equipment or the more recent revision of the manual with has been clearly and thoroughly understood.

Se CanadianSolar

Items	Methods	Period
Curatana	Check the temperature and dust of the inverter. Clean the inverter enclosure.	Six months to a year (it
clean	Check the humidity and dust of the environment.	depends on the dust contents
	Meanwhile check whether the filter function of the air inlet is ok.	in air)

12 Trouble-shooting

When the inverter does not operate normally, we recommend the following actions for quick troubleshooting. Please review the error list table carefully.

12.1 Warning

The different LED colors and flashing status identify the current operation statuses of the inverter. If the red color is always on, it indicates the inverter fault. Usually the warnings can be cleared through an orderly shutdown / reset or a self-corrective action performed by the inverter.

12.2 Errors

Error codes identify a possible equipment fault, or incorrect setting/ configuration. Any and all attempts to correct or clear a fault must be performed by qualified personnel. Typically, the Errors code can be cleared once the cause or fault is removed.

However, some of the (E) codes may cannot be cleared, in this case please contact the dealer or CSI Solar Co., Ltd. to replace a new one.

Error Code	Error Message	Suggestion	
5 100		1. Check heatsink for obstructions/ventilation.	
F-100	Over temperature	2. Check the ambient temperature around the inverter.	
		1. Disconnect the DC switch, remove the DC connector, measure the voltage of the PV string, and	
F 404		check if it exceeds the input-voltage specification of the inverter.	
F-101	High DC input voltage	2. If exceed the specification, re-layout the PV module string.	
		3. If not exceed the specification, while the error still exits, please contact Customer Service.	
		1. Turn off DC switch, remove AC connector, measure the voltage between fire line and the zero	
		line, then check if it is consistent with the grid-connected specification of inverter.	
F 102	l la se a se sta d'autici	2. Inconsistent, check if the AC main switch is connected, check if the power supply is normal	
F-103	Unconnected grid	working.	
		3. Consistent, connect the AC connector, turn on the DC Switch.	
		4. If error message still exists, contact Customer service.	
F-104	Inverter grid-connected relay fault	Contact Customer service.	
	Grid frequency fault	1. If power grid frequency returns to normal, the inverter will restore the grid connection	
F-105		automatically.	
		2. If error message still exists, contact Customer service.	
		1. Turn off DC switch, remove AC connector, measure the voltage between fire line and the zero	
		line, then check if it is consistent with the grid-connected specification of inverter.	
5 400	Grid voltage fault	2. Inconsistent, check the grid layout.	
F-106		3. Consistent, connect the AC connector, turn on DC Switch, inverter will restore the grid	
		connection automatically.	
		4. If error message still exists, contact Customer service.	
5 4 0 7	26	1. Restart inverter.	
F-107	DC component over range	2. If error message still exists, contact Customer service.	
5 4 9 9		1. Wait until inverter restores normal work.	
F-108	Current sensor fault	2. If error message still exists, contact Customer service.	
5 400	Fail safe	1. Check the cable connection of CT or meter.	
F-109		2. Restart inverter.	

Errors as indicated in the table below:

CanadianSolar

		3. If error message still exists, contact Customer service.	
F-110	Leakage current detection unit fault	 Check if there is any PV cable breakage. Check if the PV modules grounding improperly. Restart inverter. If error message still exists, contact Customer service. 	
F-111	Leakage current fault	 Check if PV strings grounding properly. If error message still exists, contact Customer service. 	
F-112	DC insulation fault	 Check if inverter grounding properly. Check if the positive and negative poles of PV modules are short out to the PE cable. Wait until inverter restores normal work. If error message still exists, contact Customer service. 	
Г 112	Leakage current detection	1. Restart the inverter.	
F-115	consistency error (Major)	2. If error message still exists, contact Customer service.	
F-114	Frequency detection		
F-115	Power grid voltage detection consistency error (Major)	 Restart the inverter. If error message still exists, contact Customer service. 	
F-116	Leakage current detection consistency error (Minor)		
F-117	Frequency detection consistency error (Minor)		
F-118	Power grid voltage detection consistency error (Minor)		
F-123	Secondary memory failure		
F-124	Clock failure	1. Destart the inverter	
F-125	Internal communication failure	2. If error message still exists, contact Customer service.	
F-129	Main memory failure		

13 Handling the Inverter

13.1 Removing Inverter

1) Turn off the inverter as described in section 10 and section 11.

2) Remove all the connection cables from the inverter.

3) Unscrew the fixing screws on both sides of the inverter.

4) Remove the inverter from the bracket.

Note: Before performing any work, ensure that you are familiar with this document.

13.2 Packing Inverter

If possible, use the original packaging, or the packaging that is suitable for the weight and dimensions of the inverter.

13.3 Disposing Inverter

Do not dispose the obsolete inverters or accessories together with household waste. Please refer to the disposal regulations.

X

Appendix A: Acronyms and Abbreviations

AC	alternating current
ст	current transformer
DC	direct current
GPRS	general packet radio service
LED	light emitting diode
МРРТ	maximum power point tracking
РС	personal computer
PE	protecting earthing
PV	photovoltaic
RCD	residual current protective device
RCM	residual current operated monitor
THDi	Total Harmonic Current Distortion
WiFi	wireless fidelity
WEEE	waste electrical and electrical equipment

Appendix B: Specification

Model	CSI-7K-S22002-E	CSI-8K-S22002-E	CSI-9K-S22002-E		
Input (DC)					
Max. DC Input Power (W)	9100	10400	11700		
Max. DC Input Voltage (V)	600	600	600		
Startup DC Input Voltage (V)	120	120	120		
MPPT Operating Voltage Range (V)	100 ~ 500	100 ~ 500	100 ~ 500		
Rated Input Voltage (V)	360	360	360		
Max. Input Current (A)	12.5 / 25	12.5 / 25	12.5 / 25		
Number of MPP Trackers	2	2	2		
Number of DC Inputs	1/2	1/2	1/2		
Output (AC)					
Rated Output Power (W)	7000	8000	9000		
AC Grid Connection Type		L / N / PE			
AC Nominal Voltage And Range (V)		220 / 230 / 240 (180 ~ 280)			
AC Nominal Frequency And Range (Hz)		50 / 60 (±5)			
Max. Output Current (A)	35	36.4	40.9		
Power Factor(@ Rated Output Power)		> 0.99			
Displacement Power Factor		0.8 leading to 0.8 lagging			
Total Harmonic Distortion (THDi)		< 3%			
Efficiency					
Max. Efficiency	98.1 %	98.1 %	98.1 %		
European Efficiency	97.5 %	97.5 %	97.5 %		
MPPT Efficiency	> 99.9 %	> 99.9 %	> 99.9 %		
Safety & Protection					
DC Switch		Integrated			
Anti-Islanding Protection	Integrated				
DC Reverse-Protection		Integrated			
Insulation Monitoring	Integrated				
AC Over Voltage Protection	Integrated				
AC Over Current Protection	Integrated				
AC Short-Circuit Protection	Integrated				
Residual Current Protection	Integrated				
Over Voltage Class	II(DC), III(AC)				
General Parameters					
Dimensions (W × H × D, mm)		399 x 446 x 192			
Net Weight (kg)		18.1			
Installation Method		Wall-mounted			
DC Connection Type		MC4			
AC Connection Type		Connector			
Communication Interfaces	WiFi / RS485				
Cooling	Natural convection				
Protection Degree	IP65				
Operating Ambient Temperature Range (°C)	-25	5~60 (> 45, derating operation	n)		
Relative Humidity (Non-Condensing)	0% ~ 100%				
Max. Operating Altitude (m)	400	00 (> 3000, derating operatio	n)		
Acoustic Noise Emission Level(dBA)	Emission Level(dBA) < 25				
opology Transformerless					
Night Power Consumption (W)	Night Power Consumption (W) < 1				
Safety and EMC	IEC 62109-1/2, IEC 61000-6-1, IEC 61000-6-3				
Grid Connection Standard	ABNT NBR 16149 / 16150:2013. IEC 61727. IEC 62116				

Appendix B: Specification

Model	CSI-7K-S22002-E (1.5G-1)	CSI-9K-S22002-E (1 5G-1)	CSI-7K-S22003-E (1.5G-2)	CSI-9K-S22003-E (1.5G-2)
Input (DC)	(1.50 1)	(1.501)	(1.50 1)	(1.50 =)
Max. DC Input Voltage (V)		60)	
Startup DC Input Voltage (V)	110			
MPPT Operating Voltage Range (V)	100 ~ 500			
Rated Input Voltage (V)	360			
Max. Input Current (A)	15 / 30			
Max. DC short-circuit current(A)		18.8 /	37.6	
Number of MPP Trackers		2		
Number of DC Inputs		1/	2	
Output (AC)				
Rated Output Power (W)	7000	9000	7000	9000
Max. Output Power (W)	7000	9000	7000	9000
AC Grid Connection Type		L/N/	/ PE	I
AC Nominal Voltage And Range (V)		220 / 230 / 240) (180 ~ 280)	
AC Nominal Frequency And Range (Hz)		50 / 60	(±5)	
Max. Output Current (A)	31.8	40.9	31.8	40.9
Displacement Power Factor		0.8 leading to	0.8 lagging	1
Total Harmonic Distortion (THDi)		< 30	%	
Efficiency				
Max. Efficiency		98.1	%	
European Efficiency	97.5 %			
Safety & Protection				
DC Switch		Integr	ated	
Anti-Islanding Protection	Integrated			
DC Reverse-Protection	Integrated			
Insulation Monitoring	Integrated			
AC Over Voltage Protection	Integrated			
AC Over Current Protection	Integrated			
AC Short-Circuit Protection	Integrated			
Residual Current Protection	Integrated			
Over Voltage Class				
General Parameters		· · ·		
Dimensions (W × H × D, mm)		399 x 44	5 x 192	
Net Weight (kg)	19.5			
Installation Method	Wall-mounted			
DC Connection Type		MC4	/T6	
AC Connection Type		Conne	ctor	
Communication Interfaces		WiFi / R	\$485	
Display		LED &	APP	
Cooling	Natural convection			
Protection Degree				
Operating Ambient Temperature Range (°C)	-25~60 (> 45 derating operation)			
Relative Humidity (Non-Condensing)				
Max. Operating Altitude (m)	4000 (> 3000, derating operation)			
Topology	Transformerless			
Night Power Consumption (W)	<1			
Safety and EMC	IEC 62109-1/2, IEC 61000-6-1, IEC 61000-6-3			
Grid Connection Standard	ABNT NBR 16149/16150:2013 IEC61727 & IEC62117, AS4777			

Se CanadianSolar

Appendix C: CT Installation Manual Guide

CT Installation Manual Guide

(Part No.: 2809000901 Release Date: March, 2021)

1. Scope

CSI inverters integrate the export limitation function, to use this function, please read this installation guide to install the CT sensor and set the inverter.

This CT sensor applies to PV inverter models: CSI-3K-S22002-E, CSI-5K-S22002-E; CSI-3K-S22002-ED, CSI-5K-S22002-ED; CSI-7K-S22002-E, CSI-9K-S22002-ED, CSI-9K-S22002-ED.

2. CT Specification

Model Name	CTSA016-100A/33.33mA
Rated primary current	100 A
Rated secondary current	33.33 mA
Secondary load	10 Ω
Power frequency withstand voltage	4000V / 10S, 1mA
Insulation resistance	100MΩ @ 500Vdc
Accuracy	± 0.5 %
Maximum current	120 A continuous
Environmental protection	ROHS
Dotted terminal	P1 and red cable
Dimension (W x H x D, mm)	30.5 X 49 X 34 mm
Signal cable length	5 m (not including CT sensor)



FIG.1 Outline and Dimensions of CT

3. CT installation

3.1 System diagram.



Note: The arrow has to be pointing to the grid side, not the load side.



3.2 Wiring signal cable

3.2.1 Wiring signal connector

1) Diagram of connector, as per FIG.3.

2) Prepare the CT (signal) cable

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

Plug (Meter Pins and shell)

Threaded Sleeve



FIG.4 Strip Signal Cable

FIG.3 Components of Connector Recommend the specification of the signal cable:

Sealing Ring

Cable Type	Conductor Cross-Sectional Area	Outer Diameter
Two cores cable.	0.2-0.75mm ² (24~18AWG)	3.5~5.5mm

Note: Signal cable length (not including CT sensor) is 5m. For extension cables, please see above specifications.

Pressure Nut



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.



CT Connector of inverter side	CT Side
Pin - 5	CT+ (red)
Pin - 6	CT- (black)

FIG.5 The 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.6 Assembling the Connector

FIG.7 Insert the connector into receptacle

3.3 Install the CT

Warning: DISCONNECT both DC & AC connections before install the CT. Otherwise there will be risk of electric shock. Install procedure:

1) Open the buckle of CT, as per FIG.7

2) Stuck CT on the tested cable (pole-L), then close the buckle, as per FIG.8 and FIG.2.

Note: The current in line must meet the allowable value of CT (check the speciation in section 2).

The current direction muse be consistent with the arrow direction on the shell of CT.

3) Fix the CT with cable tie to prevent slipping, as per FIG.9.

4) Check the current and current direction, turn on power.





FIG.8 Install the CT



FIG.9 Fix the CT

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

1) Enter CSI CloudPro APP;

2) Enter the "Local Mode", as per FIG.10;

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.11;

- 4) Enter the "Parameters" page (password "000000");
- 5) Enter the "EPM" page:

Set "EPM Mode" to "CT";

Set all the parameters refer to the local requirement, as per FIG.12 (such as "EPM power setting", "Fail safe Power Setting" etc.) 6) User "CT Link Test" to check if the installation is correct;

7) Exit local mode.

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





	12-22 4
\$ -0-95 (DD)	15.55
715993003)	<
ę ()	/Off Star
• ≈ ()	EPM Mod
03 후 🕕	EPM Pow
• ≈ ()	Fail Safe B
	Fail Safe F
ê ≑ ()	Fail Safe F
• ≈ ()	Setting
conds to restore the initial	Meter Add
and contendent of	Meter Pro
rk coura nat be round	CT Type S
ext	CT Link Te

13:3	13 🕈		0.2K/s 考 应 🗊	? , 7 5
<		Logge 1713341	er 060	
/Off	Standard Select	EPM	Calibrate Energy	all
EPN	/ Mode			OFF
EPN	A Power Setting		55	00W >
Fail	Safe Enable			ON >
Fail	Safe Power Setting	,		0% >
Fail Sett	Safe Power Time ing			5s>
Met	er Address Setting	s		12
Met	er Protocol Select			0 >
CTI	Type Select			0 >
CTI	_ink Test			

FIG. 10 Enter local Mode

FIG.11 Connect to WiFi stick

FIG.12 Default setting of EPM page

Appendix D: Single-Phase Meter Installation Guide

Single-Phase Meter Installation Guide

(Part No.: 2809001001 Release Date: March, 2021)

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-E, CSI-5K-S22002-E; CSI-3K-S22002-ED, CSI-5K-S22002-ED; CSI-7K-S22002-E, CSI-9K-S22002-E; CSI-7K-S22002-ED, CSI-9K-S22002-ED.

2 Meter Specification

Model Name	DDSD 1352
Grid Topology	1P+N
Rated Voltage	220V
Input Current	10 (60) A
	Voltage ± 0.2%;
	Current ± 0.2%;
Accuracy	Power (P, Q, S) 0.5%;
	Active Energy Class 1;
	Reactive Energy Class 2
Operating Temperature	-25℃ ~ 55℃
Relative Humidity	< 95% (Non-condensing)
Dimension (W x H x D, mm)	36 x 88 x 71 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.



Warning:

DISCONNECT both DC & AC connections before install the meter. Otherwise there will be risk of electric shock.





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 23mm, 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



FIG.4 Strip Signal Cable

Recommend the specification of the signal cable:

Cable Type	Conductor Cross-Sectional Area	Outer Diameter
Two cores cable.	0.2-0.75mm ² (24~18AWG)	3.5~5.5mm

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.



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.6 Assembling the Connector

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 - L'	Pole - L
/	Pole - N'	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.

all中国移动 🗢	Applications	@ Ø 93% 🔳
WIFi	Local Mode	((ଦৃ)) Communication Quality Inspecti
		F 8



13:33 💎		0.2K/s \$ 🖄 🕤 🕍 🤋	7, 75
<	Logg	er	
Off Standard Select	EPM	Calibrate Energy	all
EPM Mode			OFF
EPM Power Setting		55	< W0C
Fail Safe Enable			ON
Fail Safe Power Setting	ı		0% >
Fail Safe Power Time Setting			5s >
Meter Address Setting	s		1>
Meter Protocol Select			0 >
CT Type Select			0 >
CT Link Test			

FIG. 8 Enter local Mode

FIG.9 Connect to WiFi stick

FIG.10 Default setting of EPM Page

ANNEX E: CSI CloudPro APP

1 APP Introduction

The CSI CloudPro APP can establish communication connection to the inverter via the Blue-tooth, thereby achieving near-end maintenance on the inverter. Users can use the App to view basic information, alarms and events, set parameters, etc.

2 Download and Install the App

Method 1: Scan the following QR Code to download and install the App according to the prompt information.



Method 2: Download and install the App through the following application stores:

- Google Play(Android)
- APP Store(iOS)

3 Use the Local Mode to Login the App

Notice: To use the local mode, the following conditions should be met:

- (1) The collector is connected to the inverter and powered on.
- (2) The distance between the mobile phone and the collector should be within 5m and there is no shelter.

Step 1: Open the CSI CloudPro APP.

14:37	0.1	K/5 \$ \$ \$ \$ \$ \$ \$ \$ \$
English		
CSI CloudPro		
E-mail	Phone	Username
Username		
Register		Forgot Password?
	Log In	
	Local Mode	
c	urrent Version V2	1.6.1

Step 2: Select "Local Mode", then scan logger SN. The mobile phone will connect to the collector automatically.





Step 3: After the connection succeeds, users can view the real-time operating data of the inverter.

16:12 🛪	•••• • •••	16:12 7		
۲ ۱	Logger 728630599	<	Logger 1728630599	
Generation	Failure	Generation	Failure	
DC	AC	Inverter Fault		None
Voltage Current	Voltage Current	Inverter Alarm		None
451.5V 0.00A 452.2V 0.00A	0C/AC 229.8V 0.00A			
Active Power	wo			
Daily Energy	1.6kWh			
Total Energy	18.6kWh			
Total Running Time	15h			
Grid Frequency	50.00Hz			
IGBT Temperature	20.6°C			
Inverter Temperature	21.7°C			
Inslation Impedance	30000kOhm			
Countdown	7s			
Running Status	Checking			
Overview Real-time	e Parameters Debugging	Overview Real	-time Parameters	Ĩ <mark>↓</mark> Debugging

Step 4: Select "Params", enter the password 000000 and login the system. Then, users can view and modify parameters.

16:13 🕈		🕈 🔳	16:13 7		🗢 🔳
<	Logger 1728630599		<	Logger 1728630599	
General Settings	Set On/Off	Standard Select	Calibrate Energy	Grid Protection	Connection time
DateTime	2022-01-07 19:12:50 >		Grid Level 1 Overvoltage Value		253.0V >
			Over-Volt Time1		1900ms >
			Grid Level 2 Overvoltage Value		310.5V >
		Over-Volt Time2		40ms >	
				Grid Level 1 Undervoltage Value	
			Under-Volt Time1		1900ms >
			Grid Level 2 Undervoltage Valu	e	115.0V >
		Under-Volt Time2		60ms >	
			Grid Level 1 Overfrequency Value		51.00Hz >
			Over-Freq Time1		140ms >
			Grid Level 2 Overfrequency Value		51.00Hz >
	C C	Ţ † ↓		G O	

*APP pictures are for reference only.

Se CanadianSolar

China – Global Headquarters

CSI Solar Co., Ltd. 199 Lushan Road, SND, Suzhou, Jiangsu, China, 215129

Sales Inquiries Email: info@csisolar.com

Customer Support Email: service.ca@csisolar.com

This manual is subject to change without prior notification. Copyright is reserved. Duplication of any part of this issue is prohibited without written permission.