

COM100A

Communication Box User Manual



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About This Manual

1.1 Intended Use

This manual is intended to provide the reader with detailed information and description of the installation and operation about the following products:

COM100A

It is referred to as "device" for short unless otherwise specified.

1.2 Target Group

This manual is intended for technically qualified persons who need to install and operate the device.

1.3 How to Use This Manual

Read this manual carefully before performing operation on the device. Keep the manual in a convenient place for future reference.

All rights reserved including the pictures, symbols, and markings used in this manual. Any disclosure, even partially, of the contents of this manual is strictly prohibited without prior written authorization of SUNGROW.

The content of the manual will be periodically updated or revised as per the product development. It is probably that there are changes in manuals for the subsequent module edition. If there any mismatch between the product and its manual, the actual product shall govern.

1.4 Additional Information

For more details about the equipment inside COM100A, please scan the following QR codes.

1 About This Manual User Manual User Manual

Device	Related documents
Logger3000	
IO Module	

1.5 Symbol Explanation

This manual contains important safety and operational instructions that must be accurately understood and respected during the installation and maintenance of the device. To ensure the optimum use of this manual, note the following explanations of the symbols used.

A DANGER

DANGER indicates a hazard with a high level of risk which, if not avoided, will result in death or serious injury.

MARNING

WARNING indicates a hazard with a medium level of risk which, if not avoided, could result in death or serious injury

A CAUTION

CAUTION indicates a hazard with a low level of risk 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.

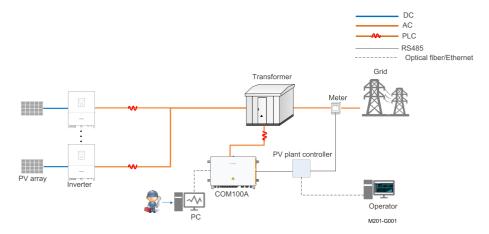


indicates additional information, emphasized contents or tips to help you solve problems or save time.

2 Product Description

2.1 Function Description

The system block diagram is shown in the following figure.





The equipment is a professional product.

Non-professionals are strictly prohibited to install and operate this equipment.

2.2 Main Features

Smart and flexible

- Integrating data collector, support of local intelligent commissioning
- Wall mounting available, flexible installation

Simple and efficient

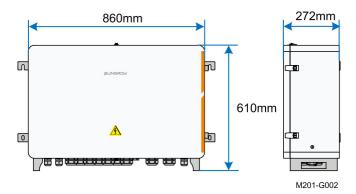
- Seamless connection to iSolarCloud, easy management of PV devices
- Built-in PLC communication, communication and management of string inverters developed by SUNGROW without cable routing

Safe and reliable

- Equipped with SPD protection, steady and reliable operation
- Ingress of protection IP65, long-term reliable outdoor operation

2 Product Description User Manual

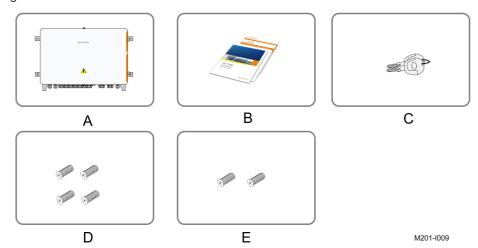
2.3 Dimensions



3 Mechanical Mounting

3.1 Inspection before Installation

Check the scope of delivery for completeness according to the packing list. The following items should be included:



Item	Description	Sum
А	COM100A	1
	Documents, including certificate, war-	
В	ranty card, delivery inspection report,	1
	user manual, etc.	
С	Keys	1
D	M10x45 bolt assembly	4
Е	M6x14 bolt	1

NOTICE

The device is carefully tested and inspected before delivery, but damage may be caused during shipping. Therefore, inspect the device before installation. If there any damage, contact the forwarding company or SUNGROW.

3.2 Location Requirements

- With the ingress of protection IP65, COM100A can be installed outdoors.
- Ambient temperature: -30°C to +60°C, and ambient humidity: 5% 95%. Excessive moisture can damage internal components.

3 Mechanical Mounting User Manual

· Take anti-moisture and anti-corrosion measures.

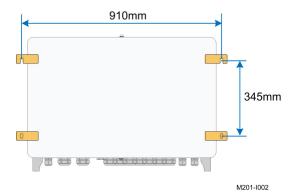
3.3 Installation Method

▲ WARNING

Beware of the weight of the device throughout the installation process!

Tilting or falling of the device due to inappropriate processing can cause personal injury!

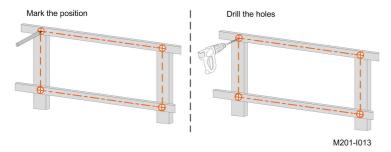
The installation dimensions of mounting ears on the back of the device are shown in the following figure.



Wall mounting and bracket mounting are both available. Choose the corresponding installation method according to actual needs.

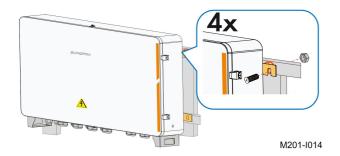
3.3.1 Bracket Mounting

step 1 Mark the hole locations on the mounting brackets according to the installation dimensions of mouting ears and drill holes on the marked locations according to bolt specifications.



step 2 Fasten the device on the brackets in the order of M10x45 bolt, mounting ear, mounting bracket, and nut with a fastening torque of 37 ± 3N.m.

User Manual 3 Mechanical Mounting

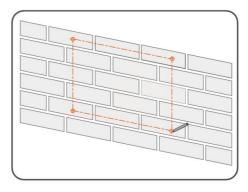


step 3 Check to ensure the device is firmly in place.

- - End

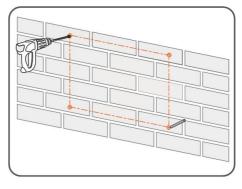
3.3.2 Wall Mounting

step 1 Mark the hole locations on the installation wall according to the foregoing installation dimensions.



M200-I010

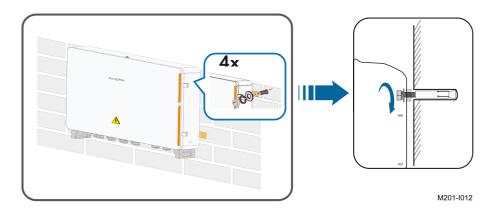
step 2 Drill holes on the marked locations.



M200-I011

step 3 Place the M10x80 expansion sleeve (not included in the scope of delivery) into the hole, and tap it with a rubber hammer. Make it completely embedded in the wall.

3 Mechanical Mounting User Manual





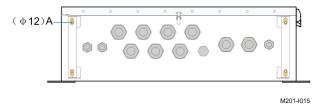
The length of the expansion solenoid should be selected reasonably in accordance with the drilling depth.

step 4 Fasten the device on the wall in the order of nut, lock washer, flat washer, mounting ear, and expansion sleeve with a fastening torque of 37 ± 3N.m.

- - End

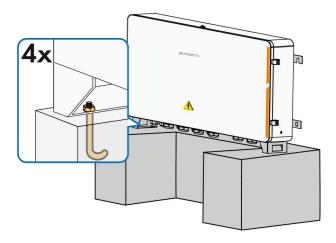
3.3.3 Ground Mounting

For the ground mounting, the device is fixed to the foundation via the installation holes in the bottom of the device (shown in Figure A below).



- **step 1** Construct the foundation according to the exterior dimensions of the device.
- **step 2** Pre-embed the foundation bolts in the four corners of the foundation, and the bolts used are M10.

User Manual 3 Mechanical Mounting



M201-I016

step 3 Secure the installation holes in bottom of the device to the foundation with a fastening torque of 37 ± 3 N.m.

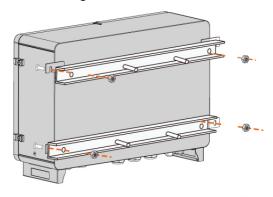
- - End

3.3.4 Pole Mounting (optional)

COM100A supports pole mounting. If necessary, specify your requirements when placing an order. SUNGROW will design according to actual installation conditions.

Accessories supplied with COM100A include matching screw combinations, nuts, brackets, clamps, and the like.

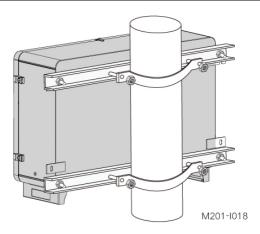
step 1 Fasten the mounting ears of COM100A onto the brackets by using the matching screw combinations, as shown in the figure below.



M201-I017

step 2 Fix the brackets and the clamps by using the nuts.

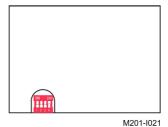
3 Mechanical Mounting User Manual



- - End

3.4 Set Communication Address(optional)

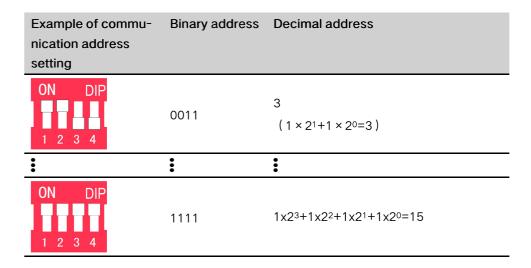
Take out the IO module, find the dip switch on the back, and set the communication address through the dip switch. The setting range of the communication address is from 1 to 15.



The DIP switches are from left to right from low position to high position.

Example of commu- nication address setting	Binary address	Decimal address
ON DIP 1 2 3 4	0001	1 (1×2 ⁰ =1)
ON DIP 1 2 3 4	0010	2 (1×2 ¹ +0×2 ⁰ =2)

User Manual 3 Mechanical Mounting



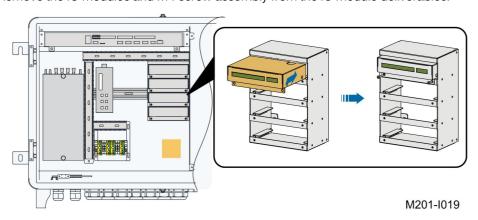
NOTICE

The dip switch addresses on each IO module must be different.

3.5 Installing IO Modules (Optional)

This operation is required if IO modules are ordered.

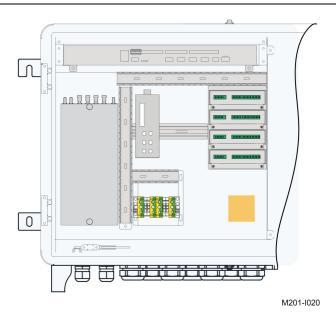
step 1 Remove the IO modules and M4 screw assembly from the IO module deliverables.



step 2 After inserting the IO modules into the reserved area, tighten them with M4 screw assembly with a tightening torque of 1.2N.m.

step 3 All four IO modules should be installed as shown in the following figure.

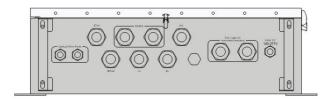
3 Mechanical Mounting User Manual



- - End

4 Electrical Connection

4.1 Waterproof Terminal Description

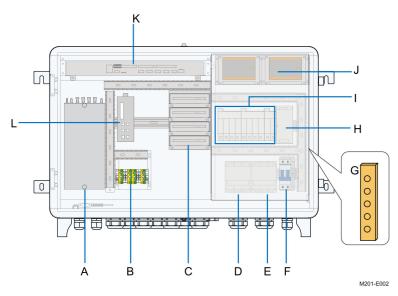


M201-E001

Mark	Description
ETH1	Waterproof terminals for Ethernet commu-
ETH2	nication cables
RS485	Waterproof terminals for RS485 communi-
N3403	cation cables
Al	Waterproof terminals for analog input
Al	cables
DI	Waterproof terminals for dry contact input
	cables
PLC Input AC400V/480V/540V/800V	Waterproof terminal for PLC communica-
	tion cables
Input AC100 - 277V	Waterproof terminal for AC 100 - 277V
input ACTOO 211V	power cables
Optical fiber ports	Waterproof terminals for optical fibers
	Grounding waterproof terminal

4.2 Internal Structure

The internal structure of COM100A is shown in the following figure.



Internal components may differ as per selected product module. For details, refer to the product received.

No	Description	Recommended Cable	Carras	
No.	Description	Specification	Source	
A*	Splice box	_	_	
В	RS485 communica-	2 x (0.75~1.5) mm ² outdoor ul-	Beyond the scope	
	tion terminal	traviolet protection STP	of delivery	
C*	10	0.75mm ²	Beyond the scope	
	IO module	0.7311111-	of delivery	
D	PLC1 terminal	4mm² ~ 10mm² or 7 ~ 11AWG		
	PLC2 terminal	are recommended, withstand-	Beyond the scope	
E		ing voltage:	of delivery	
L		To gourd operating voltage ≥	or delivery	
		1,000V		
F	220Vac power sup-	1~1.5 mm ² or 15~17AWG out-	Beyond the scope	
	ply terminal	door ultraviolet protection cable	of delivery	
G	Grounding terminal	4mm² ~ 10mm² or 7 ~ 11AWG	Beyond the scope	
<u> </u>		4mm - Tomm of 7 - Travva	of delivery	
Н	Surge protective	_	_	
	device			
1	PLC module		_	
J	Logger3000	_		
K*	Switch	_	_	

^{*} is optional.

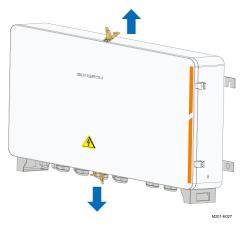
User Manual 4 Electrical Connection

4.3 Preparation Before Connection

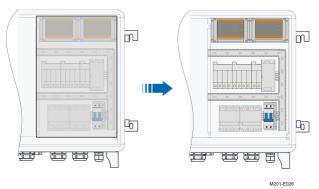
step 1 Open the cabinet. Unlock the door with the specific key, as shown in the following figure.



step 2 Unclip the top and bottom clips of the cabinet.



step 3 Remove the protective cover inside the cabinet.



step 4 Disconnect the upstream input switch of the device, and turn the power switch inside the device to the "OFF" position to ensure the device is voltage-free.



step 5 Disconnect the switch of the transformer side.

- - End

4.4 Connection Steps

4.4.1 Grounding

Safety Instructions

WARNING

The grounding cable must be grounded reliably! Otherwise,

- · Lethal electrical shock can be caused when fault occurs!
- The device may be damaged by lightening!

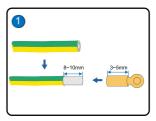
Brief Introduction

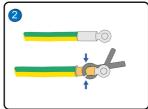
The device is designed with two grounding terminals: grounding copper bar inside the cabinet and external PE point.

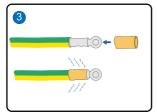
On site, connect both grounding terminals reliably.

Preparation before Installation

- Prepare the grounding cable.
- Strip the cable and crimp the OT terminal, and then use heat shrink tubing to tighten the cable and the OT terminal.







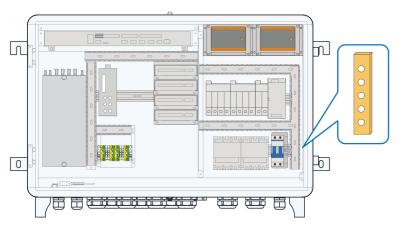
M200-E004

4.4.1.1 Cooper Bar Grounding

Position Description

The grounding copper bar is located inside the cabinet, as shown in the figure below.

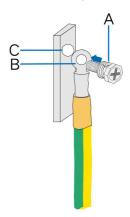
User Manual 4 Electrical Connection



M201-E005

Wiring Steps

- step 1 Unscrew the waterproof terminal " at the bottom of the device.
- **step 2** Connect the yellow-green grounding cable led from outside to the grounding copper bar inside the device through the internal waterproof terminal " ...".



No.	Definition
Α	M6x12 bolt(Beyond the scope of delivery)
В	OT terminal
С	Grounding hole

- **step 3** Secure the cable with M6x12 bolt with a fastening torque of 7.5 ± 0.5 N · m.
- **step 4** Screw the waterproof terminal at the bottom of the device.
 - - End

4.4.1.2 PE Point Grounding

Position Description

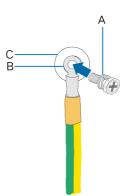
The external PE point of the device is shown by A in the figure below.



M201-E007

Wiring Steps

Anchor the prepared OT terminal to the grounding hole with bolt assembly with a fastening torque of $7.5 \pm 0.5 \text{N} \cdot \text{m}$.



No.	Definition
А	M6 x 14 bolt assembly(included in the scope of delivery)
В	OT terminal
С	Grounding hole

4.4.2 RS485 Communication Terminal Connection

Preparation Before Connection

NOTICE

When the COM100A is connected to external devices by RS485, make sure that the external devices are protected against lightning.

Cable Requirements

Cables connected to the device must be $2 \times (0.75 \sim 1.5) \text{mm}^2$ in cross-sectional area.

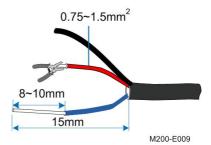
User Manual 4 Electrical Connection

Wiring Steps

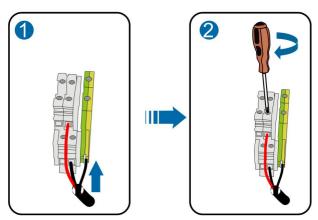
step 1 Unscrew the "RS485" waterproof terminal at the bottom of the device.

step 2 Connect the RS485 cable led from outside to the communication terminal inside the device through the "RS485" waterproof terminal.

step 3 Strip the cable jacket with a wire stripper.



step 4 Connect the cable to the corresponding terminal, and secure it with a screwdriver with a fastening torque between 0.5N · m and 0.6N · m.



Mark	Definition
Α	Connected to RS485 - A, corresponding to upper-layer terminal
В	Connected to RS485 - B, corresponding to lower-layer terminal
GND	Connected to RS485 cable shield

- **step 5** Gently pull the cable backwards to ensure firm connection.
- **step 6** Screw the "RS485" waterproof terminal at the bottom of the device.
 - - End

4.4.3 Optical Fibre (Optional)

Preparation before Installation

Before installation, prepare the required components. Components listed below are for reference only, and the actual situation may differ.

No.	Component
1	Pigtail: single-mode ST
2	Jumper: Single-mode single-core ST-SC, 500mm
3	ST flange
4	Network cable, 460mm

Installation Steps

- **step 1** Unscrew the waterproof terminal "Optical fiber ports", and lead the optical fibre through the terminal.
- **step 2** Splice the optical fibre inside the splice box.



For details, contact SUNGROW.

- step 3 Screw the waterproof terminal "Optical fiber ports".
 - - Fnd

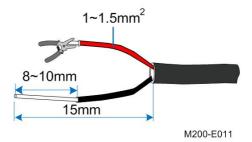
4.4.4 100ac - 277Vac Power Supply Connection

Preparation before Installation

- Before wiring power supply, ensure that the micro circuit breaker is in the OFF position.
- · Prepare the AC cable.

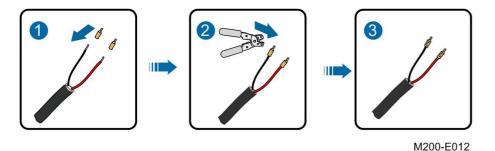
Installation Steps

- **step 1** Unscrew the waterproof terminal "Input AC 100 277", and lead the external power supply cable through the terminal.
- step 2 Strip the cable with a wire stripper.

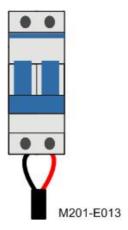


step 3 Crimp the cord end terminal.

User Manual 4 Electrical Connection



step 4 Connect the cord end terminal to the corresponding terminal, and secure it with a screw with a fastening torque of 2.0N · m.



step 5 Screw the waterproof terminal "Input AC 100 – 277".

- - End

4.4.5 PLC Port Connection

Wiring Diagram

The device can be connected to a double-split transformer or a double-winding transformer, as shown in the figures below.

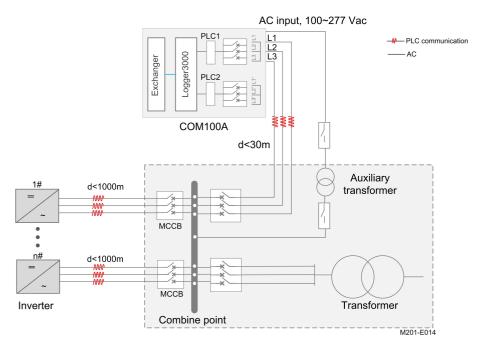
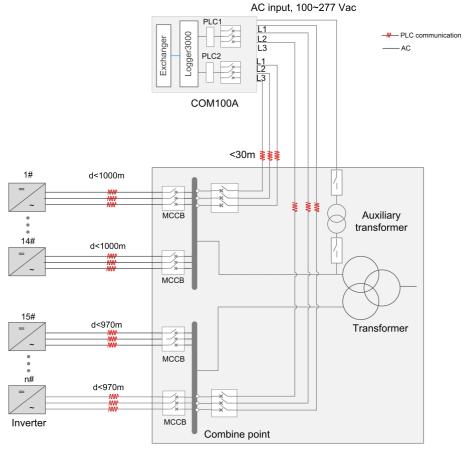


figure 4-1 Connection to double-winding transformer

User Manual 4 Electrical Connection



M201-E015

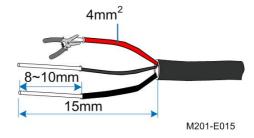
figure 4-2 Connection to double-split transformer

Preparation before Installation

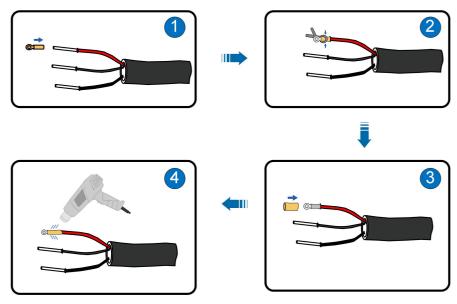
Before wiring, ensure that upstream AC switches and circuit breakers inside the device are all disconnected.

Installation Steps

- **step 1** Unscrew the waterproof terminal "Input AC 400V/480V/540V/800V" at the bottom of the device, and lead external AC cable through the terminal.
- **step 2** Strip the cable jacket with a wire striper to reveal the copper core as shown in the figure below.



step 3 Crimp the OT terminal, whose specification is recommended to be OT2.5-6.



M201-E017

step 4 Connect the cable to the corresponding terminal.

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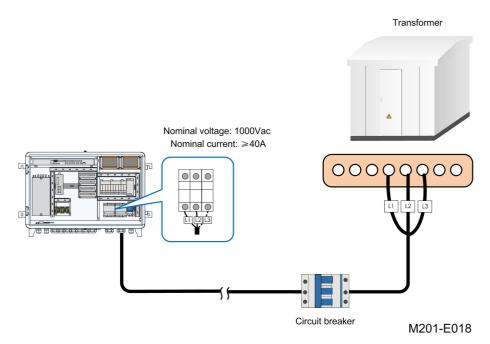


figure 4-3 Three-phase three-wire connection

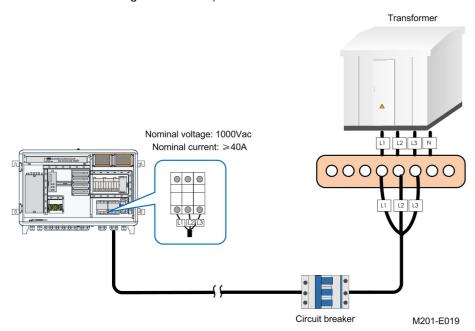


figure 4-4 Three-phase four-wire connection

The parameters of the transformer side circuit breaker need to be selected in combination with the short-circuit current of the transformer.



When wiring, be sure to pay attention to the phase sequence of cables and terminals.

step 5 Check the cable for correct connection, and then secure it with a screw with a fastening torque of 5.5N · m.

- - End

4.4.6 DI/DO Port Connection

If the model purchased is not equipped with IO modules, the DI/DO port asks for a direct data collector. For the specific wiring method, refer to Logger3000 User Manual.

If the model purchased is equipped with IO modules, the DI/DO port should be connected to IO modules. For the specific wiring method, refer to IO Module Quick User Manual.

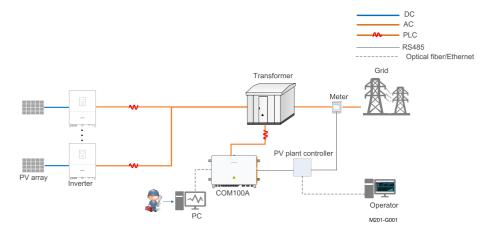
4.5 Post-wiring Processing

Gently pull the cable backwards to ensure firm connection when finish wiring. Restore the protective cover inside the cabinet.

4.6 Communication Methods

The COM100A can collect the operating data of the inverter, transformer and other equipment in the system and upload it to the remote monitoring system.

Via the remote monitoring system, users can access the WEB interface to view operation information and set parameters.



5 Commissioning

5.1 Inspection before Commissioning

No.	Inspection item
1	All cables are connected correctly and firmly.
2	The phase sequence of all cables is correct.
3	The internal and external grounding points of the device are reliably
	grounded.

5.2 Commissioning Steps

Commissioning Steps

Item	Description	
1	Connect the internal fuse of COM100A.	
2	Connect the control switch of AC power supply.	
3	Check whether the switch and 24V switch-mode power supply operate	
	normally.	
4	Observe running indicators of Logger3000. If the PWR indicator keeps steady	
	on, and the RUN indicator flickers once every second, the device operates	
	normally.	
5	Connect the transformer-side circuit breaker.	

Configure Logger3000 through WEB Interface

Item	Description	
1	Connect PC to the Ethernet port of the switch inside COM100A by using a	
	network cable. IP of the Ethernet port is 13.13.13.13 by default.	
2	Set IP of the PC, which should be in the same network segment as that of the	
	ETH2 port of the Logger3000. For example, it can be set to 13.13.13.x (x	
	ranges between 1 and 255, except 13), and the subnet mask can be set to	
	255.255.255.0.	
3	Enter the IP of the Logger3000, such as 13.13.13.13, in the PC address bar,	
	to enter the corresponding Web interface.	
4	Configure serial port parameters.	
5	Add devices.	
6	Configure device IP.	



5 Commissioning User Manual

Item	Description	
	Configure iSolarCloud address if inverter data needs to be uploaded to	
	iSolarCloud.	
7	Accessed iSolarCloud site is "Chinese Server" by default.	
	 In mainland Chain, set the site to "Chinese Server"; 	
	 In Europe, set the site to "European Server". 	
	In other regions, set the site to "International Server".	
0	Access the Web interface of Logger3000 and check whether the running	
8	data of string inverters manufactured by SUNGROW is normal.	
9	Create power plants through iSolarCloud App, and check whether the data	
	displayed on iSolarCloud is normal.	

Additional Description

To create power plant through iSolarCloud App, download and install the App and then proceed as follows:

1 Log into the Web interface of Logger3000 and click "About", to obtain the QR code.



2 Scan the QR code with the App or manually input the S/N to add communication device.

For more details, refer to Logger3000 User Manual, which can be obtained by scanning the foregoing QR code.

6 Troubleshooting

Fault	Possible Cause	Corrective Measures
		1. Measure the voltage between
	1. RS485 cable is	RS485 - A and RS485 - B with a
	abnormal.	multimeter, and check whether
		the voltage is about 5V.
	2. There are re-	
	peated device ad-	2. Check whether there are re-
	dresses in the PV	peated device addresses.
According to the back-	array.	
ground monitoring device,		3. Check, through the WEB in-
some devices in the PV ar-	3. Parameters of	terface "System" -> "Port
ray are abnormally	Logger3000 are in-	Paramter " -> RS485 ",
disconnected.	correctly configured.	whether the PLC access is
		enabled.
	4. Master and slave node modules of the PLC are abnormal.	4. Check whether the indicator
		D12 keeps steady red while the
		indicator D8 flickers green. If not,
		the modules are abnormal.
	5. Other causes	If the fault persists, please con-
		tact SUNGROW.
	1. There are re-	
	peated device ad-	1. Check whether there are re-
	dresses in the PV	peated device addresses.
According to the back-	array.	
ground monitoring device,		2. Check, through the WEB in-
some devices in the PV ar-	2. Parameters of	terface "System" -> "Port
ray are unstably	Logger3000 are in-	Paramter" -> RS485",
connected.	correctly configured.	whether the PLC access is
		enabled.
	3. Other causes	If the fault persists, please con-
		tact SUNGROW.



7 Appendix A: Technical Parameters

Configuration				
Logger	Logger3000			
Fibre channel switch	2 optical ports, 6 electrical ports			
(Optional)				
Splice box (Optional)	4-input, 24-ouput, SC single-mode			
Power supply	100 - 277 Vac, 50/60 Hz			
PLC port input voltage	400Vac/480Vac/540Vac/800Vac			
PLC power supply voltage	Master node of PLC module: 24 Vdc			
Power consumption	Average power consumption: 30W			
	Max. power consumption: 60W			
Ambient parameters				
Operating temperature	- 30°C - +60°C			
Storage temperature	- 40°C - +70°C			
Operating humidity	5% – 95%, non-condensing			
Operating altitude	≤4000m			
Protection degree	IP65			
Mechanical parameters				
Dimensions (W x H x D)	860mm x 610mm x 272mm			
Weight	32kg			
Installation method	Wall mounting, bracket mounting, ground mounting,			
	and pole mounting			
Cable in and out mode	Bottom in, bottom out			

8 Appendix B: General Information

8.1 Quality Assurance

When product faults occur during the warranty period, SUNGROW will provide free service or replace the product with a new one.

Evidence

During the warranty period, the customer shall provide the product purchase invoice and date. In addition, the trademark on the product shall be undamaged and legible. Otherwise, SUNGROW has the right to refuse to honor the quality guarantee.

Conditions

- After replacement, unqualified products shall be processed by SUNGROW.
- The customer shall give SUNGROW a reasonable period to repair the faulty device.

Exclusion of Liability

In the following circumstances, SUNGROW has the right to refuse to honor the quality guarantee:

- The free warranty period for the whole machine/components has expired.
- The device is damaged during transport.
- The device is incorrectly installed, refitted, or used.
- The device operates in harsh conditions beyond those described in this manual.
- The fault or damage is caused by installation, repairs, modification, or disassembly performed by a service provider or personnel not from SUNGROW.
- The fault or damage is caused by the use of non-standard or non-SUNGROW components or software.
- The installation and use range are beyond stipulations of relevant international standards.
- The damage is caused by unexpected natural factors.

For faulty products in any of above cases, if the customer requests maintenance, paid maintenance service may be provided based on the judgment of SUNGROW.

8.2 Contact Information

Should you have any question about this product, please contact us. We need the following information to provide you the best assistance:

· Model of the device

- Serial number of the device
- Fault code/name
- Brief description of the problem

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