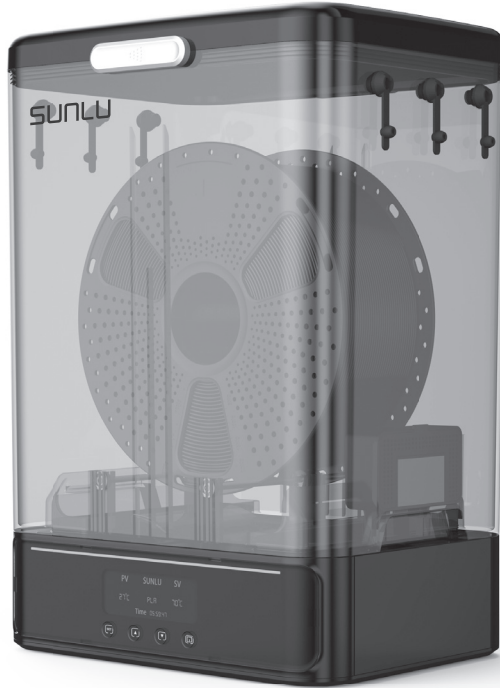


SUNLU



FilaDryer SP2 User Manual

3D Printing-Mate

RoHS FC CE 

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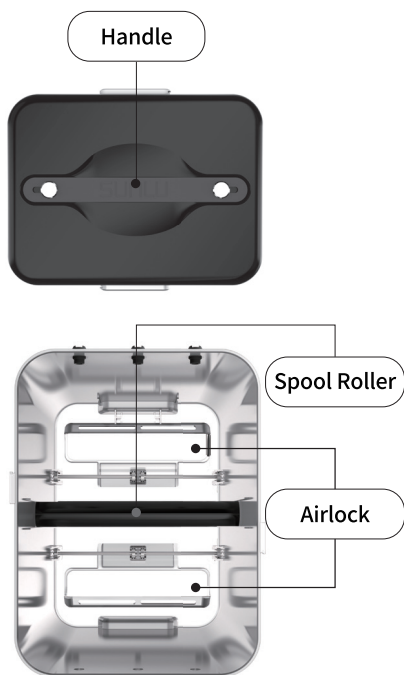
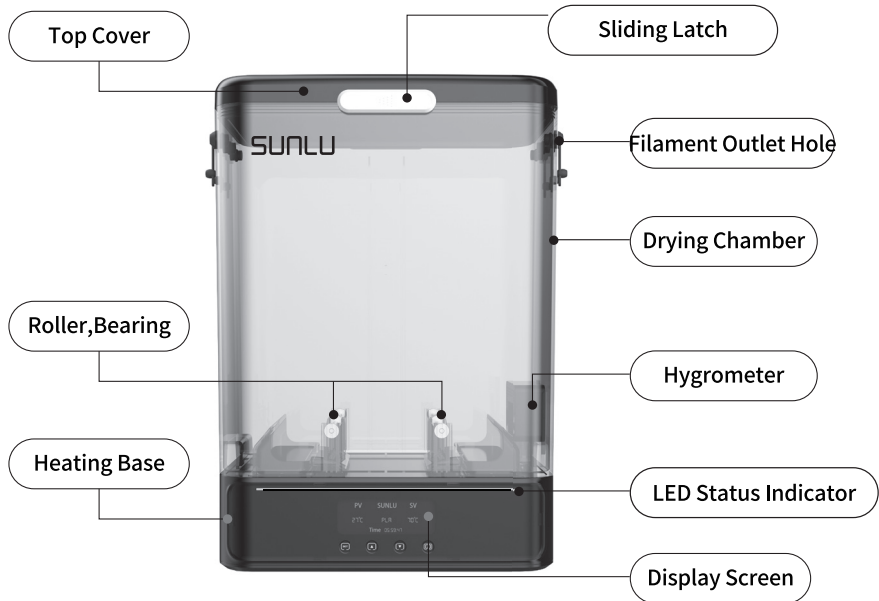
1 Package Contents

① Drying Chamber	X1	⑦ Spool Roller	X1
② Heating Base	X1	⑧ Airlock	X2
③ Hygrometer	X1	⑨ PTFE Tube 8cm	X2
④ Desiccant	X1	⑩ PTFE Tube 1m	X2
⑤ Desiccant Box	X1	⑪ User Manual	X1
⑥ Power Cable	X1		

2 Technical Specifications

Product Name	Filament Dryer
Model	SP2
Product Dimentsions	278mm×208mm×396mm(LWH)
Internal Dimentsions	265mm×193mm×274mm(LWH)
Maximum Spool Size	φ250mm×153mm (1kg×2 or 2kg×1 or 3kg×1)
Net Weight	3.6KG
Operating Environment	Temperature: 10°C-35°C, Relative Humidity: ≤95%
Work Temperature Range	35°C-70°C
Humidity Display Range	efer to the Hygrometer: 10%-90%
Time Setting Range	0-99H
Power Input Specifications	AC 110V 60Hz or AC 220V 50Hz
Maximum Operating Current	2.2A @230V 4.2A@120V
Maximum Working Power	250W
Standby Power	≤1W
Kompatibler Filamentdurchmesser	φ1.75mm/φ2.85mm

3 Component Description



4 Important Notes



● Filament Drying Temperature/Time Recommendations

Material	PLA/PLA+	WOOD	PETG	TPU	PVA	PVB	ASA	ABS	PA/PC
Drying Temperature	50-55°C				65-70°C				65-70°C
Drying Time	4-6h				4-6h				10-12h

- 1、 To ensure optimal drying results, do not open the drying chamber cover during the drying process.
- 2、 When the ambient temperature is below 10°C, slow heating or the actual temperature inside the chamber being slightly lower than the displayed temperature is normal.
- 3、 The desiccant in this product is orange at room temperature and turns dark green after absorbing moisture. It can be restored to orange by drying at 70°C and reused.
- 4、 When setting the working temperature to 70°C, please ensure the filament spool has a temperature tolerance greater than 70°C to avoid deformation

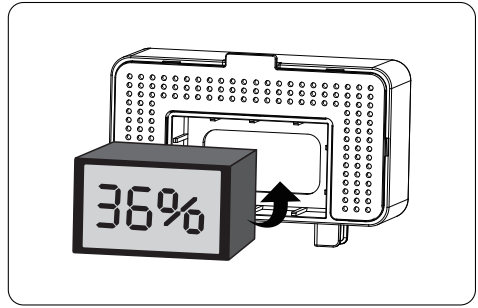
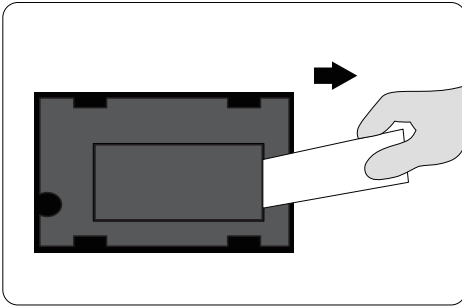
5 Safety Precautions



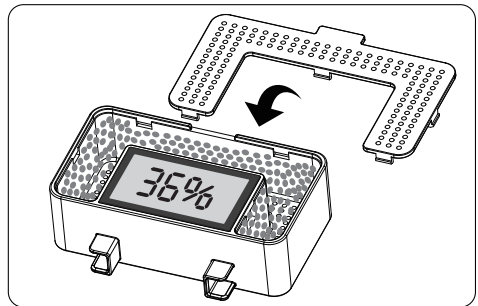
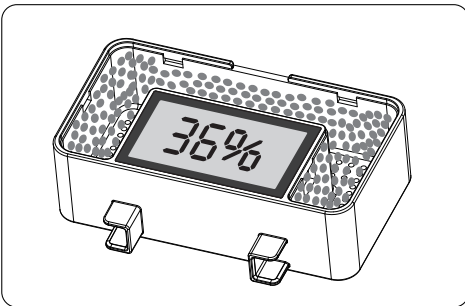
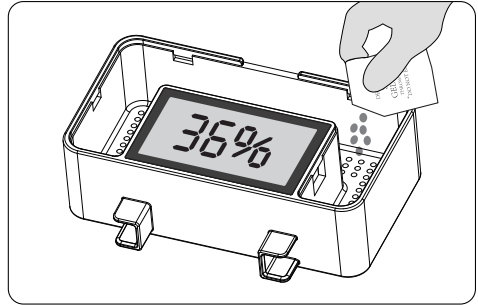
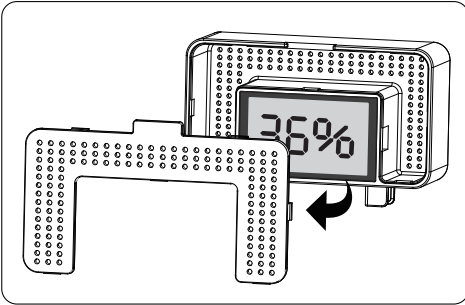
- 1. Do not place this product within the reach of children.
- 2. Pay attention to electrical safety during operation. Do not use this product near water, such as in bathrooms, bathtubs, washbasins, or other areas where water is easily accessible.
- 3. Please use the original power cord or a power cord that meets safety certification requirements.
- 4. When not using this product, please turn off the power to avoid sudden fire hazards.
- 5. During the operation of this product, do not place it on temperature-sensitive objects.
- 6. During the operation of this product, do not touch the heater or fan inside the chamber to avoid burns. When drying materials, ensure the drying chamber cover is properly closed to prevent heat loss.
- 7. Avoid moving this product during normal operation to prevent burns caused by the high temperature of the outer surface.
- 8. Do not block the internal air intake and exhaust vents to prevent heat buildup and potential malfunctions.
- 9. If the product malfunctions, please turn off the power and disconnect the power cord from the power outlet, then contact the after-sales support team.

6 Operating Instructions

01/ Take out the hygrometer, open the lid, cut open the desiccant, and pour it into the hygrometer and assemble it together with the desiccant box.

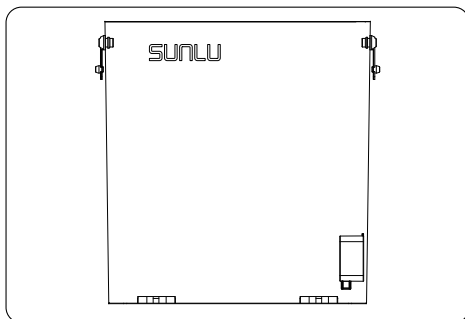
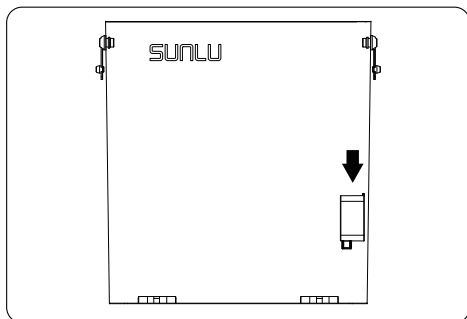


02/ Open the lid of the desiccant box, cut open the desiccant, and pour it into the desiccant box. Then, securely close the lid.

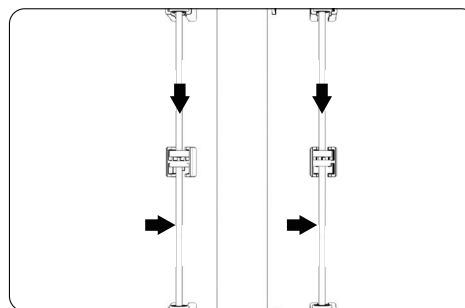
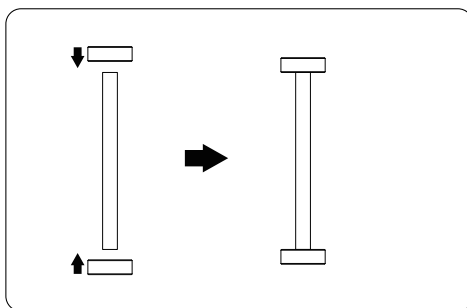


6 Operating Instructions

03/Insert the assembled hygrometer into the groove on the side of the chamber.

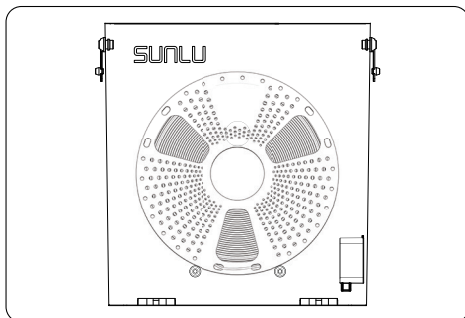
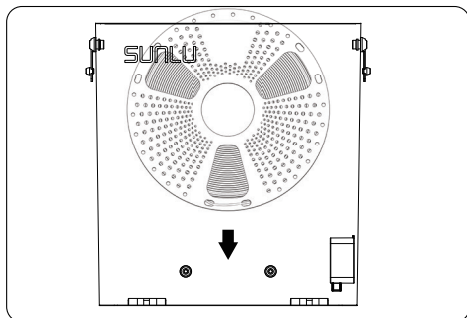


04/Remove the bearing and roller, insert the roller into the bearing, place it in the recessed groove at the bottom of the chamber, and slide the roller to ensure smooth rotation.



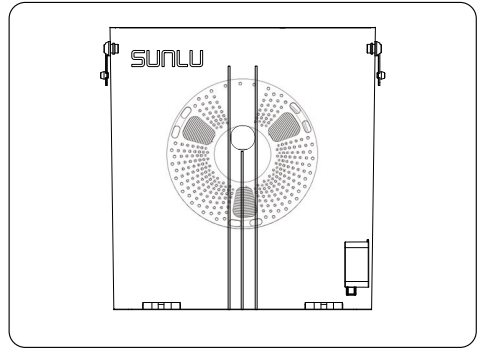
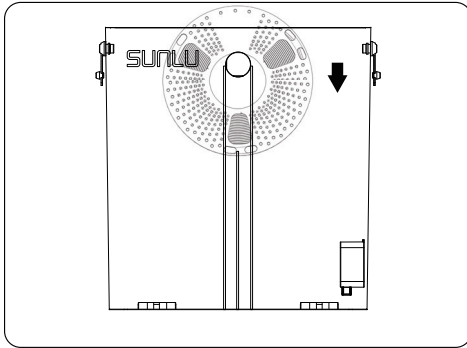
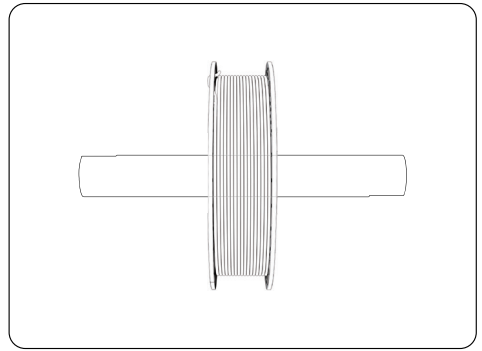
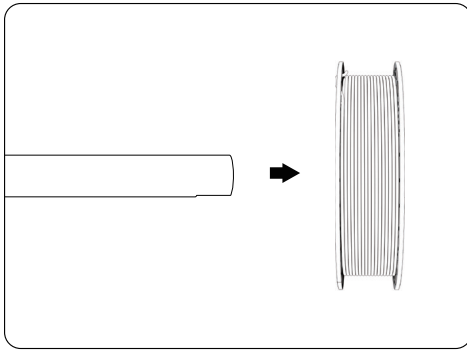
05/Filament Installation:

1) For 1kg/2kg/3kg filaments, secure them by placing them on the roller shaft.

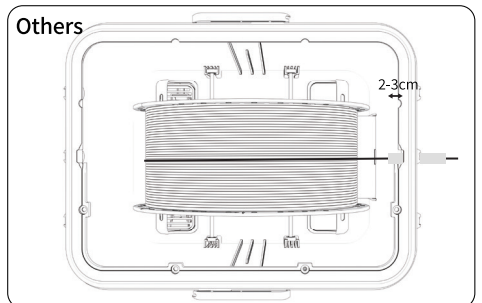
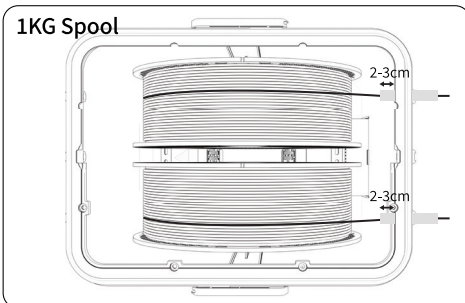


6 Operating Instructions

2) For 0.25kg/0.5kg filaments, secure them by threading them through the spool rollers, it should be noted that the smooth side should face up.

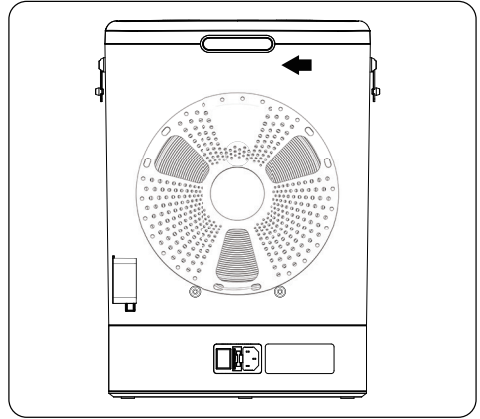
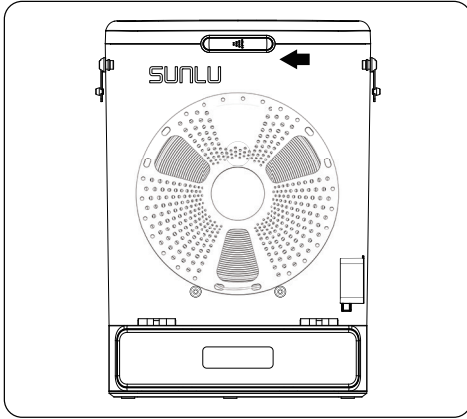


06/Select the appropriate hole based on the size of the filament being used. Insert the PTFE tube into the rubber stopper, then feed the filament through the PTFE tube.

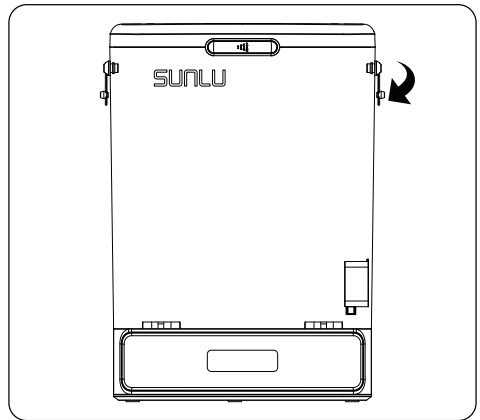
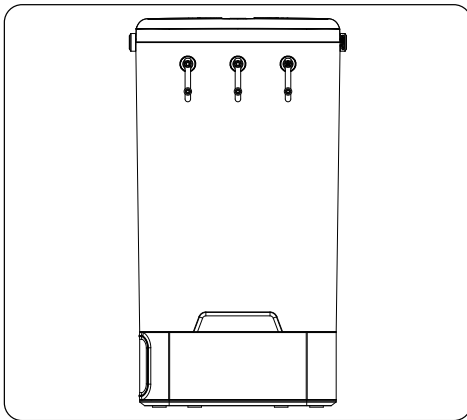


6 Operating Instructions

07/Close the top cover and secure the latch. At the same time, fix the drying chamber to the heating base (when facing the screen, the hygrometer of the chamber should be on the right side).

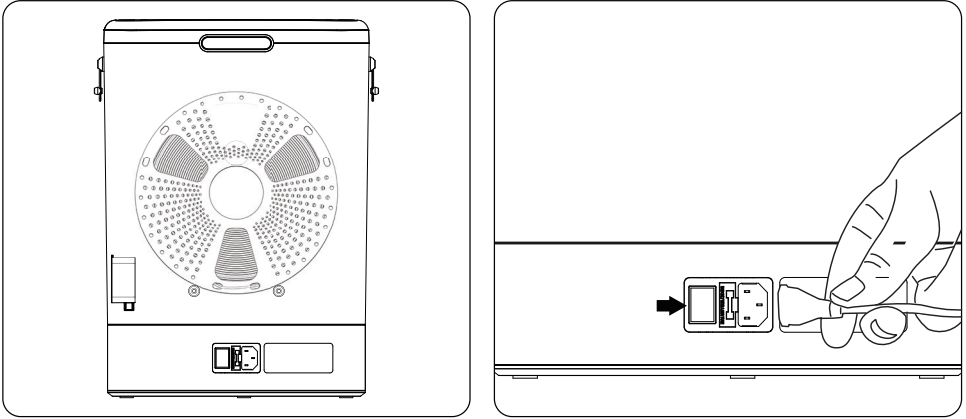


08/To achieve the best drying effect for the filament, it is recommended to remove the silicone stopper from the filament feed hole during the drying process (to allow effective moisture expulsion).

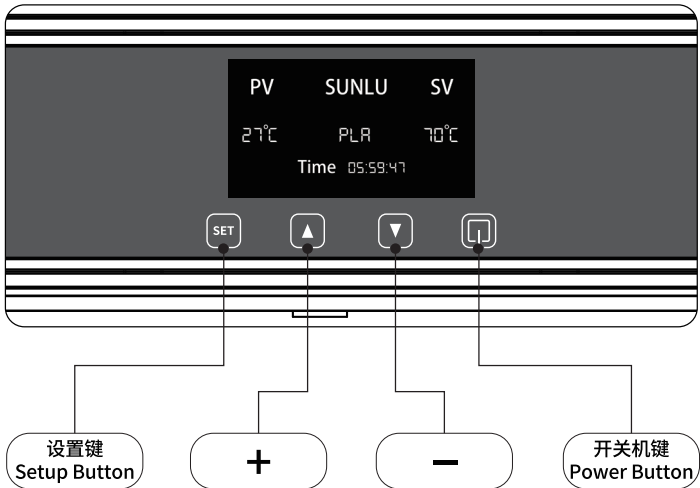


6 Operating Instructions

09/Connect to the power supply and flip the switch.




10/Screen Function Display



6 Operating Instructions

11/Operation Method (Bedienungsmethode)

1. Click  to wake up the screen, and then click  to perform related operations.

2. Click  when °C flashes, then click   to switch temperature units (°C/°F).

3. Click  to power on, and click   to adjust different lighting effects.

(1) Flowing light: → → → → When the temperature reaches the preset level, the lighting effect will switch to steady on mode.


(2) Diffusion light: ← ← → → The lighting effect will remain constant and unaffected by external factors.

(3) Steady on (ständig leuchten): — — — — (4) Off (ausschalten): == == == ==

4. Click  when PLA flashes, then click   to adjust the filament type (PLA, PETG, TPU, ABS, PA, PC).

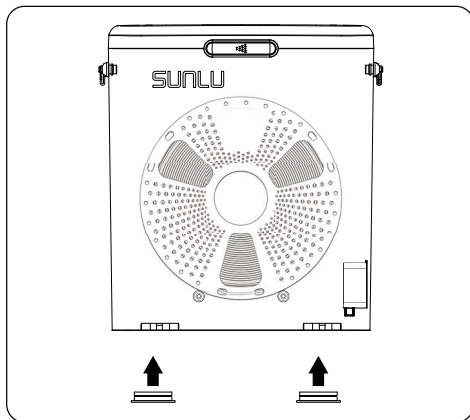
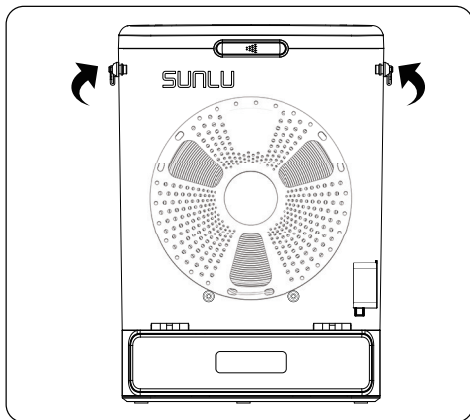
5. Click  when SV flashes, then click   to adjust the preset drying temperature for the current filament (35°C-70°C).

6. Click  when Time flashes, then click   to adjust the drying time (0-99H). The timer will reset to zero, and the machine will stop working.

7. Double-click  to turn off the display, stop the heating, and the fan will shut down after 3 minutes. (Purpose: To prevent internal heat buildup and temperature accumulation on the motherboard during the heating process.)

6 Operating Instructions

12/To keep the filament dry (prevent remoisture), after drying is complete,remove the drying chamber, install the airlock at the bottom, and tightlyplug the filament outlet hole with the silicone stopper.



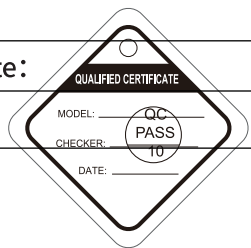
7 Common Troubleshooting

If the product encounters the following issues during use, please try the methods listed in the table below to troubleshoot. If the issue persists, please contact us.

Issue	Possible Causes	Troubleshooting Methods
Failure to Power On	Abnormal Power Connection	Check whether the power cord is properly connected to the socket, and verify if the fuse is blown.
Screen Garbling/ Incomplete Display	Poor contact or a damaged display screen.	Power off and restart. If the issue persists, the display screen may need to be replaced. Please contact us.
ER1	Abnormal Temperature Detection	Check whether the temperature sensor connection is secure.
ER2	PTC Heating Fan Malfunction	Check whether the fan is not rotating or is obstructed by foreign objects.

8 Certificate of Conformity

Product Name:	Manufacture Date:
Inspector:	Inspection Date:



9 After-Sales Service

1. The product comes with a one-year warranty under normal operating conditions as shown in this manual.
2. The warranty does not cover damages caused by using power cables of different specifications or incorrect operation as per the instructions in the manual during the warranty period.

10 Contact us

Sunlu (Guangdong) Technology Co., Ltd.

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After-sales service: support@sunlu.com

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