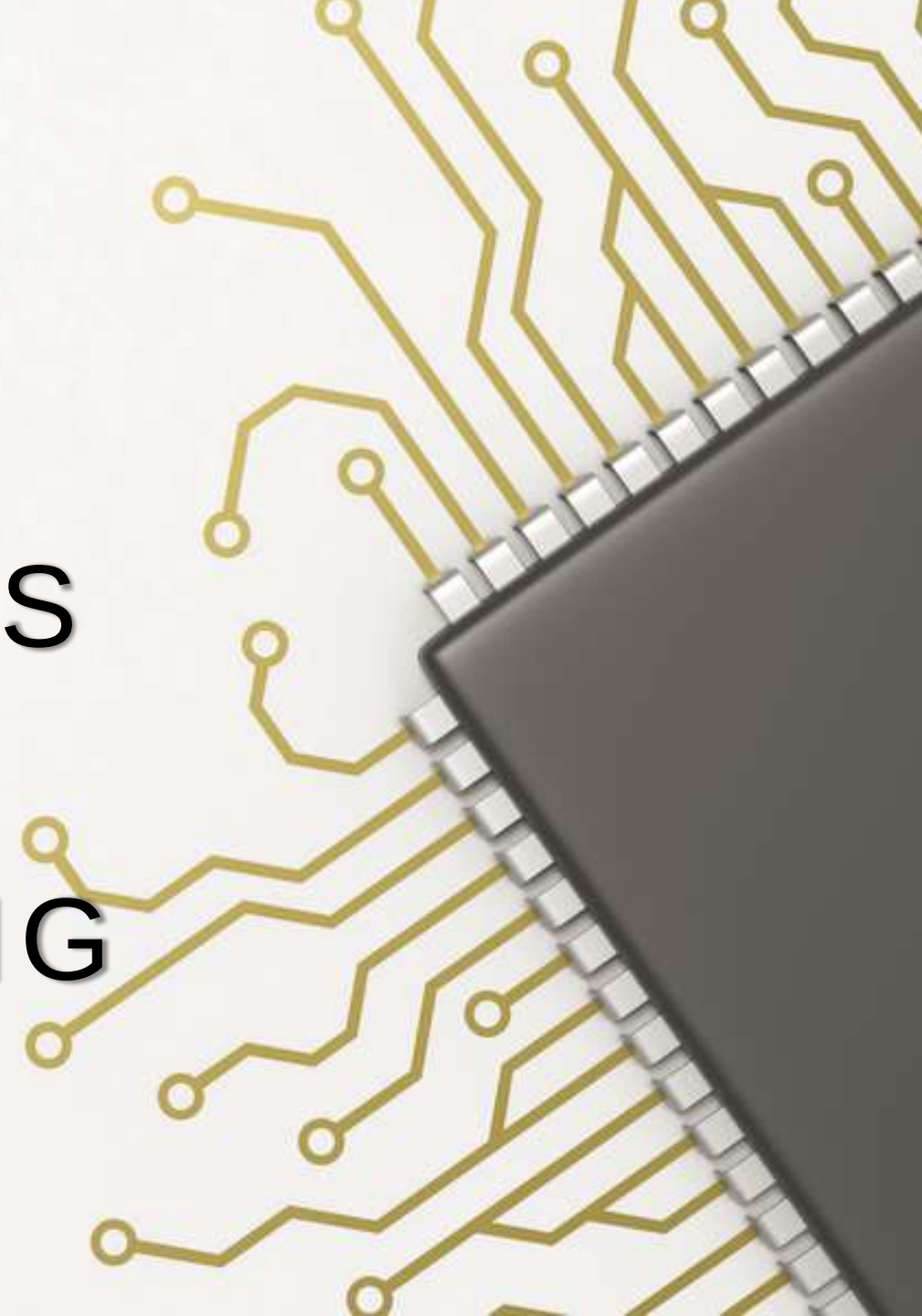
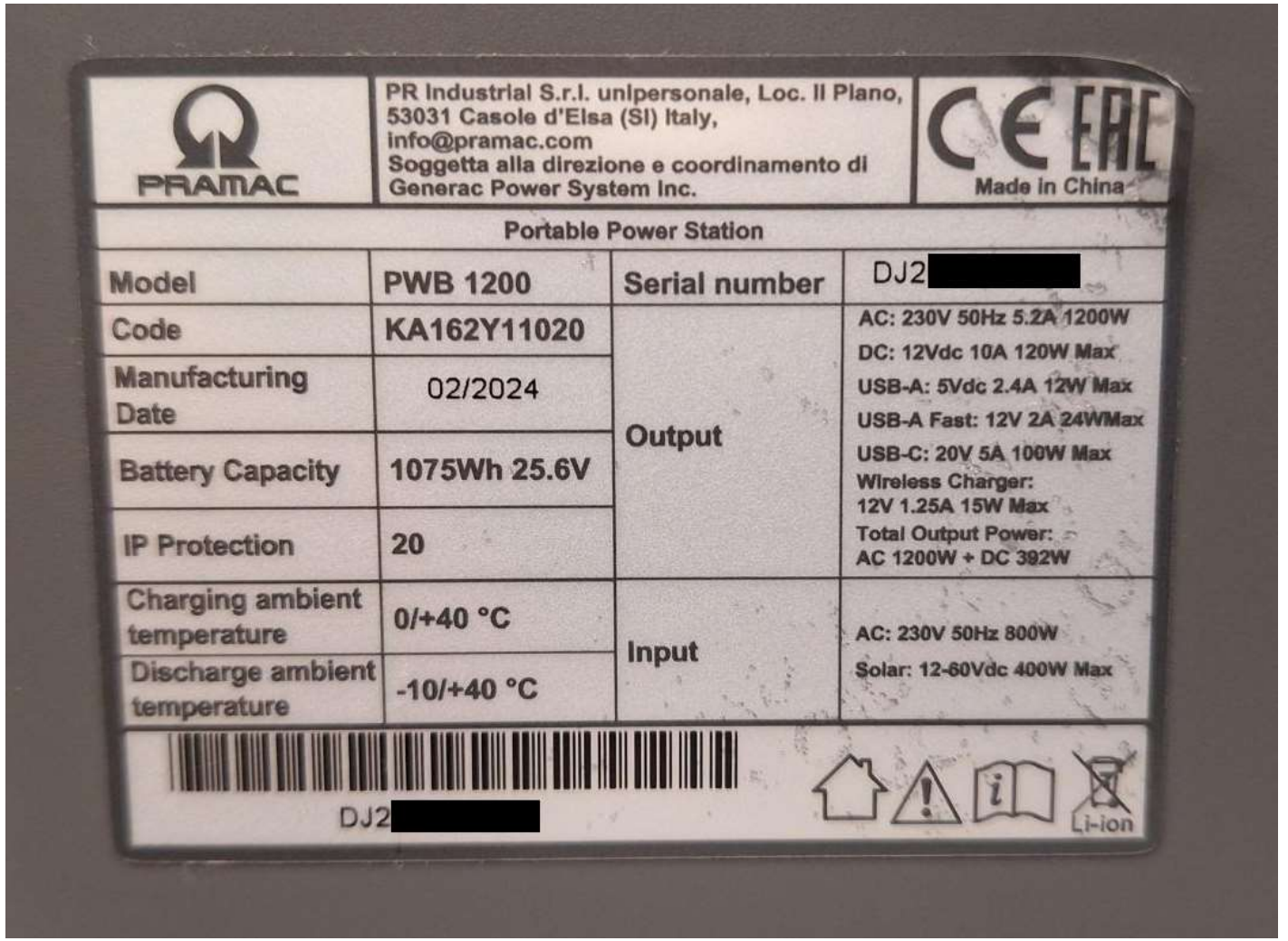
PRAMAC PWB1200
QUICK GUIDE

- OVERALL VIEW
- OPERATION MODES
- TROUBLESHOOTING



Overall View

Manufacturing Machine Plate



Technical Data

Model	PWB1200	
Power output for AC output	Rated voltage	230 V
	Nominal power	1200 W
	Frequency	50 Hz
Power output for 12V DC output	Rated voltage	12V
	Rated current	max. 5 A
	Required connector	Coaxial power connector
Power output for USB-A output	Rated voltage	5 V
	Rated current	2.4 A
	Nominal power	12 W
Power output for USB-A QUICK CHARGE	Rated voltage	12 V
	Rated current	2 A
	Nominal power	24 W
Power output for USB-C output	Quick charge	PD3.0
	Rated voltage	5V/3A; 9V/3A; 12V/3A; 15V/3A; 20V/3A
	Max. power	100 W
Power output for 12V vehicle output	Rated voltage	12 V
	Rated current	10 A
	Nominal power	120 W
Power supply	Rated voltage	230 V / AC
	Rated current	4 A
	Nominal power	800 W
	Input voltage	100-240 V
	Frequency	50 Hz
Li-ion battery	Rated voltage	25.6 V
	Battery capacity	921 Wh/DPS1200L-B (D) 1075 Wh/DPS1200L-B (D) MAX
	Voltage	22.4 - 28.8 V
Working conditions	Air humidity	10% - 90%
	Operating temperature	-10°C to 40°C
General	Protection category	IP 20
	Protection class	II

Front Panel Description(Operation)

1

2

3

1. Power switch, press this button for ON/OFF the PWB1200.
2. LCD display.
3. LCD ON/OFF button, press this button for LCD display ON/OFF.

Front Panel Description(Operation)

4

5

6

4. DC switch, press this button to activate the 12V DC outputs.
5. AC switch, press this button to activate the 230V AC output.
6. 12V vehicle output.

Front Panel Description(Operation)

7

8

9

10

7. 12V DC output
8. USB-C output.
9. USB 12V 2A Fast Charge output.
10. USB 5V 2.4A output.

Right Panel Description(Operation)

11

12

11. 230V AC output.
12. Parallel interface.

Left Panel Description(Operation)

13

14

15

13. Left side.
14. Open the panel.
15. DC charging interface.

Left Panel Description(Operation)

16

17

16. AC charging interface.
17. Safety switch.

Top Panel Description(Operation)

18

18. Panel for wireless charging. Wireless charging will be activated in all modes AC, DC or standby.

Cables Description

19

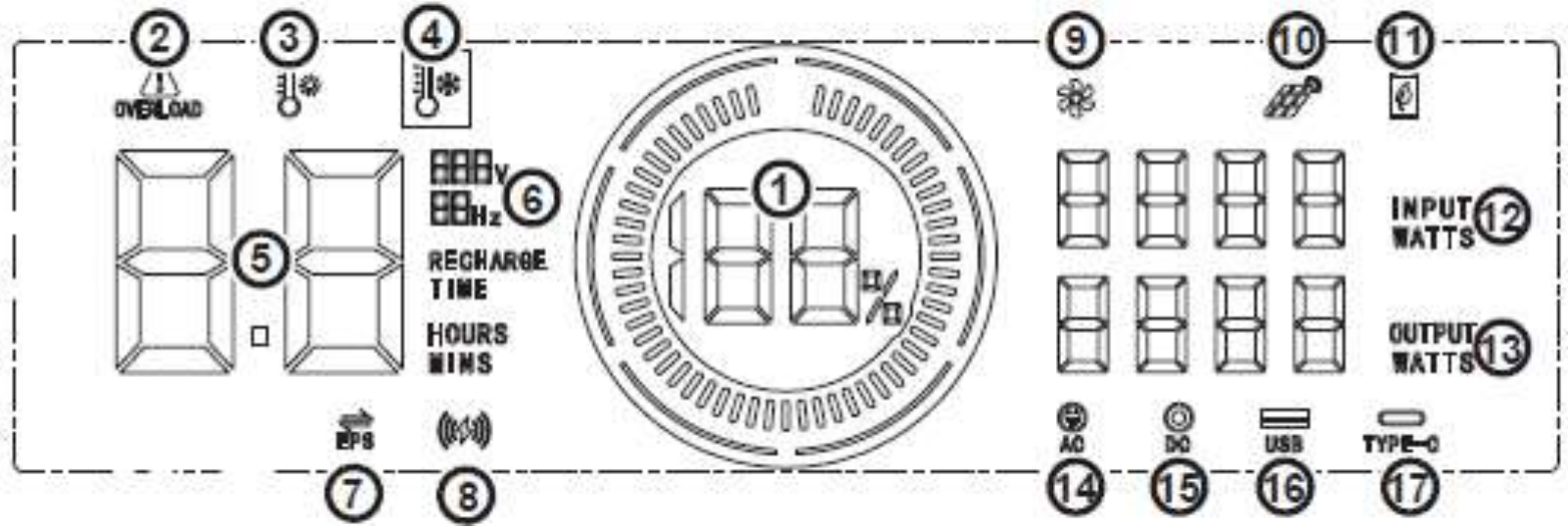
20

21

22

19. AC power cable.
20. Vehicle charge cable.
21. Cable for solar panel charging.(Available in the box of Solar panel,Not available in the box of PWB1200).
22. Cable for parallel connections of PWB1200.(Optional,not available in box of PWB1200, separately saleable if any customer wants).

LCD Display Description(Operations)



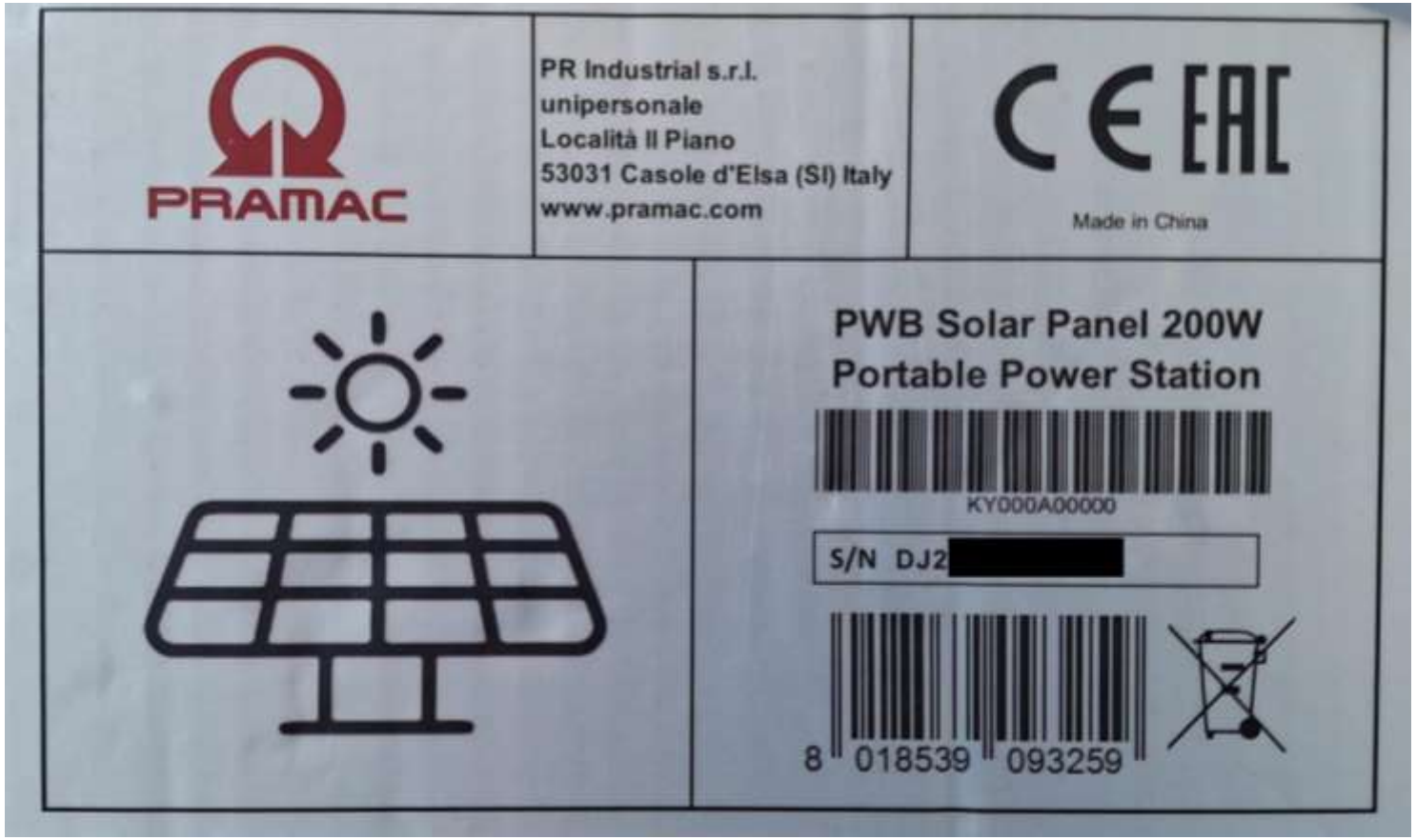
1. Battery level
2. Overload protection
3. Heat protection warning
4. Cold protection warning
5. Charging and discharging time display
6. Voltage and frequency display
7. EPS
8. Wireless charging
9. Fan
10. Solar or DC charging display
11. Energy-saving mode
12. Charging Power
13. Output power
14. AC (AC = alternating current)
15. DC (DC = direct current)
16. USB-A
17. USB-C

LCD Display Description(Operations)

Battery status（1）	Displays the battery charge status in segments (0-10%, 11-20%, 21-30%, 31-40%, 41-50%, 51-60%, 61-70%, 71-80%, 81-90%, 91-100%). In addition, the charge status is displayed as an exact percentage. When the Powerstation is charging, the segments rotate by the percentage.
Overload protection（2）	In AC mode, once the rated power is exceeded for too long or the peak power is exceeded, a warning sign with "overload" will appear.
Heat protection warning（3）	The fan symbol switches on for cooling after some time in AC mode.
Cold protection warning（4）	A thermometer with a snowflake is displayed if the Powerstation becomes too cold due to external influences
Charging and discharging time display(5)	When the device has charging current, the RECHARGE TIME icon is steady on and displays the corresponding remaining charging time. When the device is discharging, the RECHARGE TIME icon is not displayed, only the remaining discharge time displayed
Voltage and frequency display（6）	When AC is turned on, the screen displays the corresponding output voltage level and frequency
EPS（7）	When the mains is connected and the AC output is on, the icon is always on
Wireless charging（8）	If the device has this function, the icon is steady on. If the device does not have this function, the icon is not displayed
Fan（9）	The fan symbol switches on for cooling after some time in AC mode.
Solar or DC charging display（10）	When a solar device or DC is charging the device, the icon is on
Energy-saving mode（11）	If you press the DC button for more than 10 seconds, the icon will be steady on and enter the energy saving mode. If you press the DC button again, the icon will disappear and the energy saving mode will close. When the energy saving mode is on, the DC automatically shuts down after 12 hours (power less than 2W), and the AC automatically shuts down after 12 hours (power less than 5W).
Input charge power（12）	The input charging power is indicated by “INPUT”.
Output charge power（13）	The total output power is indicated by “OUTPUT”.
AC（14）	The AC inscription and a plug symbol indicate that the 230V output is active.
DC（15）	A socket symbol and the DC inscription indicate that the 12V DC outputs and the 12V vehicle output are active.
USB-C（16）	A USB-C symbol and the Type-C inscription indicate that the USB-C output is active.
USB-A（17）	A USB-A symbol and the USB inscription indicate that the USB-A outputs are active.

Solar Panel

Manufacturing Plate



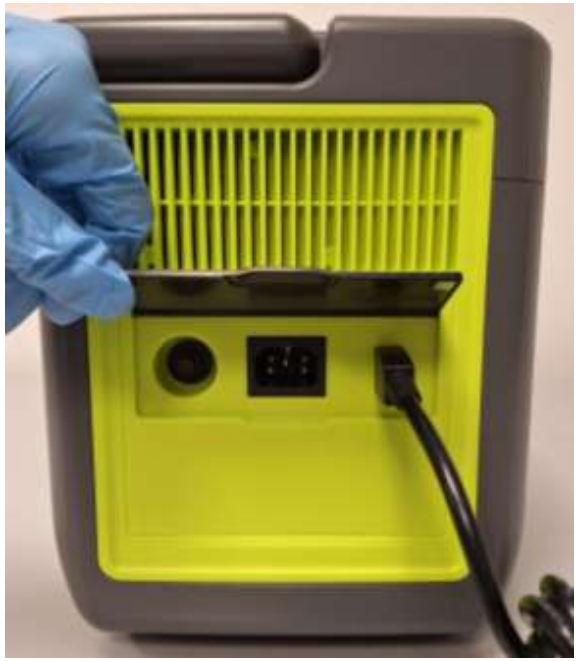
How To Connect To Solar Panel

1

2

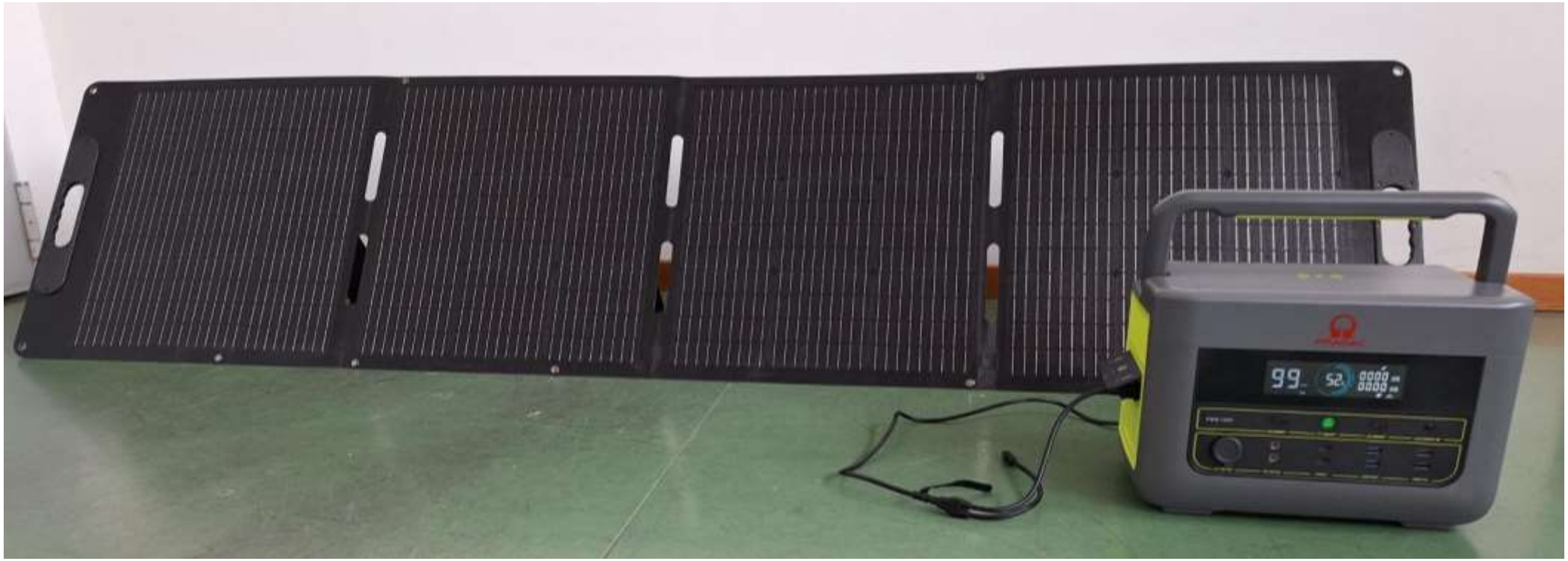
3

4



- Take the cable for solar panel charging (1) (cable available in the box of solar panel).
- Open the pocket on the solar panel (2).
- Connect the solar panel cables to the cable taken previously (3).
- Connect the cable to the PWB1200 (4).

How To Connect To Solar Panel



Troubleshooting

Fault	Possible cause	Remedy
Device does not work or not as expected	Overheating protection	Check the ambient temperature. Output is restarted when the generator cools down.
	Battery over-current protection	Disconnect the product from the power connection and carry out commissioning again.
	Battery charging protection	Contact the customer service department.
	Protection at low discharge temperatures	Check the ambient temperature to see if it is lower than -10°C.
	Battery low voltage protection	Charge the product in good time, restart after it has fully charged.
	Power inverter overcurrent protection	Check if the AC output is overloaded or short-circuited.
	Power inverter overload protection	Check if the AC output is overloaded.
	Power inverter short-circuit protection	Check if the AC output is overloaded or short-circuited.
	Protection against overvoltage while charging	Check whether the input voltage exceeds the maximum input voltage.
	Battery overheat protection	Check if the ambient temperature is higher than 40°C. Allow the product to cool down.

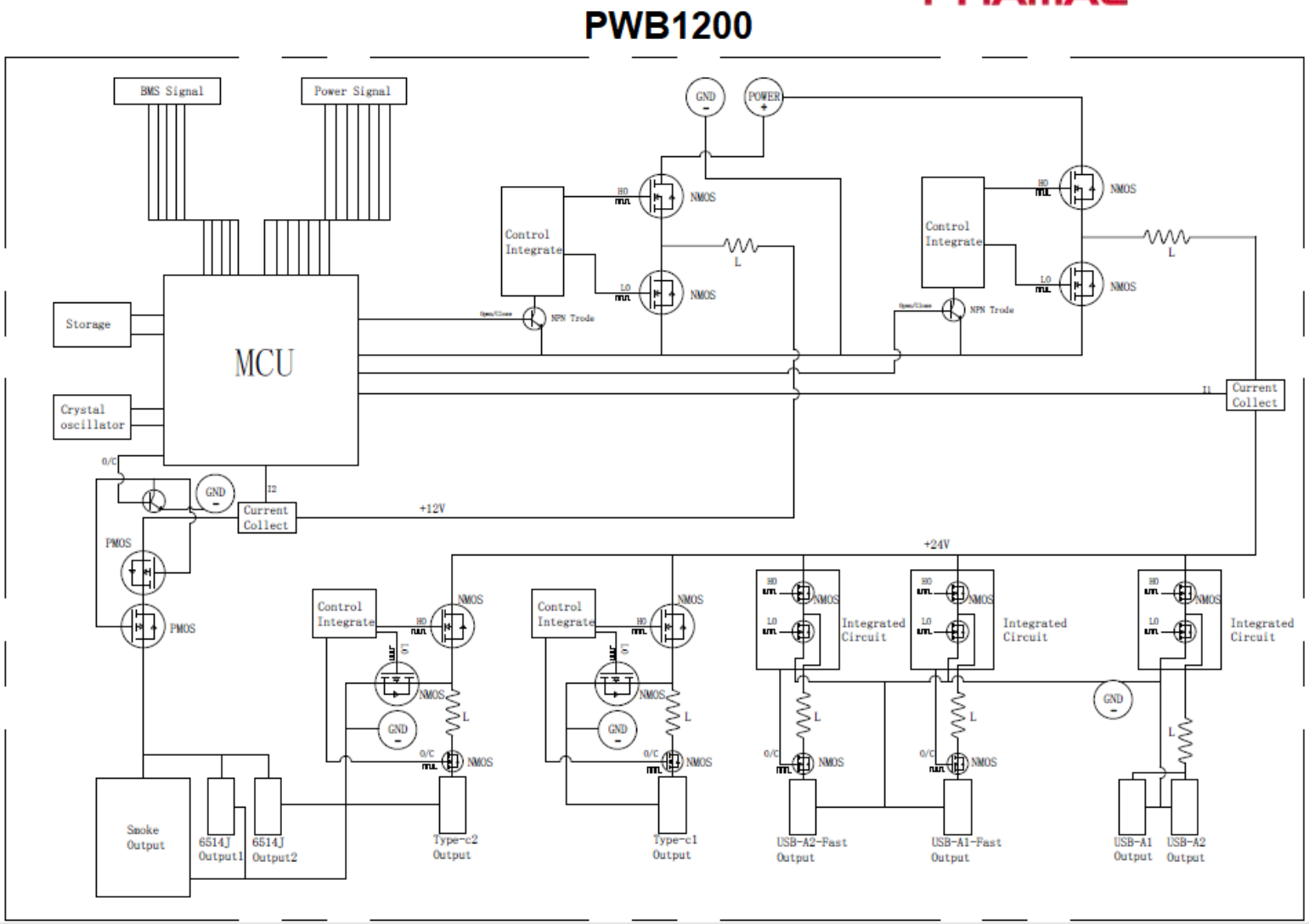
The following tables shows fault symptoms and describes remedial measures in the event of your product failing to work properly. If you cannot localise and rectify the problem with this, please contact your service workshop.

Troubleshooting

Error code	Possible cause	Remedy
F001	Defective power amplifier	Contact the customer service department.
F004	Power amplifier overheated	Switch off the Powerstation and let it cool down. Check the functionality of the fans if necessary.
F005	External short-circuit or overload	Check the connected load for short-circuit or whether it exceeds the specified rated power.
F006	Battery overcharged	End the charging process, restart the product and then discharge it using the consumer.
F007	Output voltage of the power amplifier too low	Remove the connected consumer, switch off the Powerstation and restart.
F008	Deep discharge of the device	Fully charge the Powerstation. If charging is not possible, contact customer service.

Troubleshooting

- WIRING DIAGRAM



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