RENOGY

E.FLEX 80 / 120 / 220

Portable Solar Panel

Version A1

APPLICABILITY

The User Manual applies to the following products:

• E.FLEX 80 Portable Solar Panel (RSP80EF)

• E.FLEX 120 Portable Solar Panel (RSP120EF)

• E.FLEX 220 Portable Solar Panel (RSP220EF)

DISCLAIMER

• Renogy makes no warranty as to the accuracy, sufficiency, or suitability of information in the User Manual because continuous product improvements are going to be made.

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⚠ Important Safety Instructions ⚠

Please save these instructions.

The User Manual provides important operation and maintenance instructions for E.FLEX Series Portable Solar Panel. Please read the User Manual carefully before operation and save it for future reference. Failure to observe the instructions or precautions in the User Manual can result in electrical shock, serious injury, or death, or can damage E.FLEX, potentially rendering it inoperable.

■ Symbols Used

The following symbols are used throughout the User Manual to highlight important information.

WARNING	Indicates a potentially dangerous condition which could result in injury or death.
CAUTION	Indicates a critical procedure for safe and proper installation and operation.
NOTE	Indicates an important step or tip for optimal performance.

■ General Safety Information

WARNING

- DO NOT disassemble the unit or remove any attached components.
- DO NOT puncture, drop, crush, penetrate, shake, strike, or step on E.FLEX.
- DO NOT open, dismantle, repair, tamper with, or modify E.FLEX.
- DO NOT place the unit on a surface constructed from combustible material.
- DO NOT expose E.FLEX to direct flame or heat sources.
- Please keep unit out of reach of children unless supervised by an adult.
- Please keep unit away from explosives and corrosive substance

CAUTION

- DO NOT step, walk, stands or jump on the unit. Localized heavy loads may cause damage on solar cell, which will ultimately compromise the performance of the unit
- DO NOT band the unit, or the panel will be broken
- DO NOT immerse the unit in water.
- Dispose of the unit according to the local recycling and environmental regulations

Table of Contents

Package Contents

- 1 x Renogy E.FLEX Portable Solar Panel
- 1 x Case
- 1 x User Manual

Specifications

Model: E.FLEX 80 (RSP80EF)

Dimensions (fold)	24.8 x 17.1 x 1.0 in / 631 x 435 x 25 mm
Dimensions (unfold)	24.8 x 34.2 x 0.2 in / 631 x 870 x 4 mm
Weight	7.3 lbs. / 3.3 kg (Approximately)
Operation Temperature	-4°F to 149°F / -20°C to 65°C
Max Power at STC	80W
Open-Circuit Voltage	20.7 V
Short-Circuit Current	4.9 A
Optimum Operating Voltage	17.2 V
Optimum Operating Current	4.7 A
Cell Type	Monocrystalline Silicon
Connector	MC4

Specifications

Model: E.FLEX 120 (RSP120EF)

Dimensions (fold)	26.4 x 21.7 x 1.0 in / 671 x 551 x 25 mm
Dimensions (unfold)	26.4 x 43.5 x 0.2 in / 671 x 1102 x 4 mm
Weight	11.0 lbs. / 4.8 kg (Approximately)
Operation Temperature	-4°F to 149°F / -20°C to 65°C
Max Power at STC	120W
Open-Circuit Voltage	23.8 V
Short-Circuit Current	6.4 A
Optimum Operating Voltage	19.8 V
Optimum Operating Current	6.1 A
Cell Type	Monocrystalline Silicon
Connector	MC4

Model: E.FLEX 220 (RSP220EF)

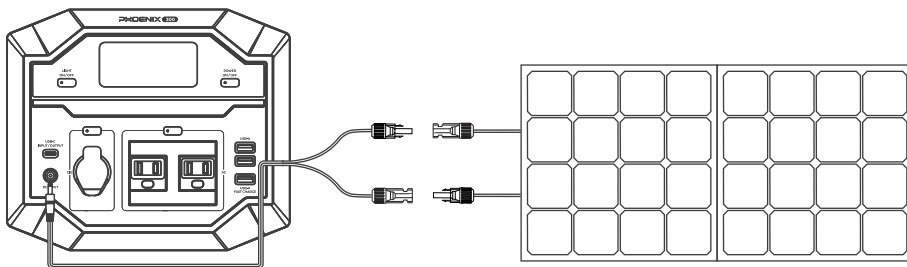|	
Dimensions (fold)	29.1 x 22.9x 1.6 inch / 738 x 581 x 40 mm
Dimensions (unfold)	29.1 x 84.1 x 0.2 inch / 738 x 2135 x 4 mm
Weight	20.4 lbs. / 9.23 kg (Approximately)
Operation Temperature	-4°F to 149°F / -20°C to 65°C
Max Power at STC	220W
Open-Circuit Voltage	26.8 V
Short-Circuit Current	10.2 A
Optimum Operating Voltage	22.7 V
Optimum Operating Current	9.1 A
Cell Type	Monocrystalline Silicon
Connector	MC4

Operation

■ **How to charge power station**

- Place a solar panel under direct sunlight. Steer clear of objects that can shade the solar panel and slow down the charging process.
- Connect the solar connectors of the solar panel with the solar charge cable (sold seperatly), then Connect DC input port of power station.
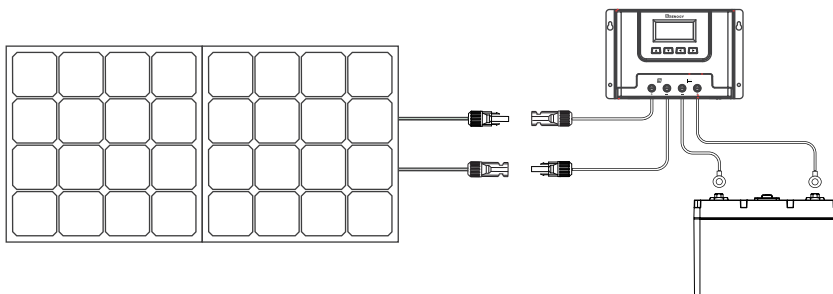

NOTE

- The solar charge time is highly dependent on the solar irradiance and the ambient temperature.
- The operating voltage of the solar panel shall exceed the minimum DC-input voltage of power station, and the open circuit voltage shall NOT exceed the maximum DC-input voltage of power station.
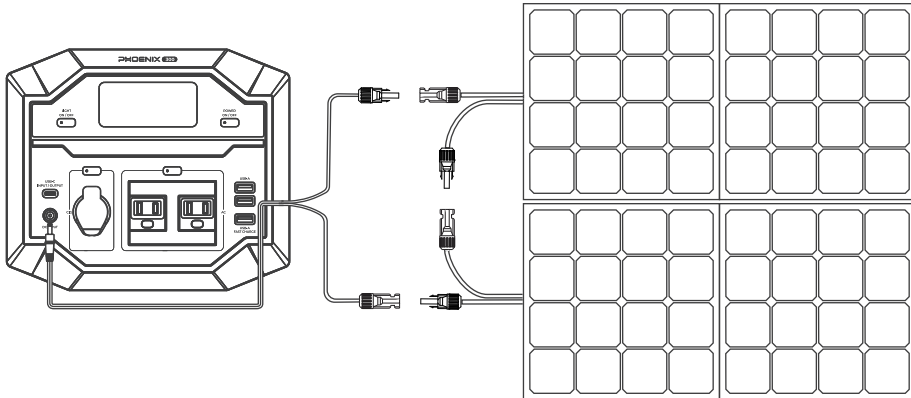
■ **How to charge battery**

- Connect E.FLEX connector to PV Terminals of charge controller (sold seperately).
- Connect the BATT Terminals of charge controller to battery terminals using tray cables (sold seperately)
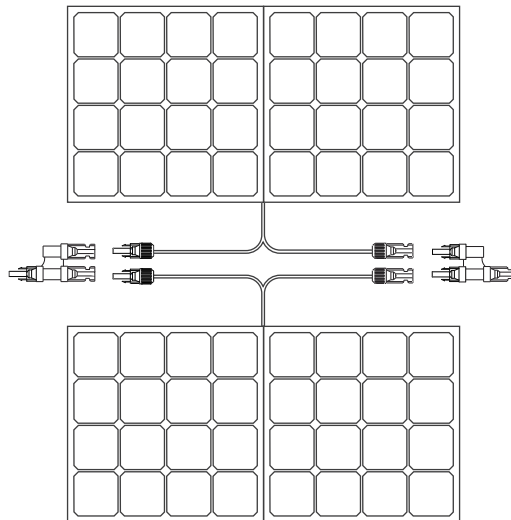- Set the charging paremeter on charge controller, and the E.FLEX is ready to charge battery.

■ How to connect E.FLEX in series/parallel

- To expand the power output, E.FLEX can be connected either in series or parallel.
- Connect E.FLEX in series.

- Connect E.FLEX in parallel.

FCC STATEMENT

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and

(2) This device must accept any interference received, including interference that may cause undesired operation.

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