



Product Description

The RI-ENERGYFLOW-PORTABLE-1500 forms part of an expanding family of batteries and inverters from Rayleigh Instruments. It has been designed to be extremely versatile for a range of applications where access to power is difficult. They are ideal for camping for example, and can be used to power laptops, televisions, electric fans, electric grills, lights, power tools etc. as well as mobile phones and tablets, making it the ideal travel companion.

An large LCD screen shows the power consumption at a glance. Besides a pure sine wave and BMS system, the RI-ENERGYFLOW-PORTABLE-1500 is also equipped with a LiFePO4 BATTERY with a 20V circuit board. This results in a solar generator that offers more protection with a larger capacity. MPPT technology ensures faster solar charging times, ideal for outdoor life and even unexpected power outages.

To perfectly compliment this portable power station is the RI-ENERGYPANEL-200 compact and lightweight, foldable Solar panel.

Portable power station

- 1500W power storage
- Automotive-grade LiFePO4 battery
- Charge from solar panel, AC socket, car power outlet
- Charge up to 7 devices simultaneously
- Can be used as UPS
- Only 6 hours to fully charge
- 4 Modes LED lights
- 110V pure sine wave
- Smart battery protection system
- Compatible with portable Solar Panel

Portable solar panel

- 200W single-crystal silicone
- Waterproof and dust-proof IP67 ETFE material
- Overcharge, overload, over current and short circuit protection
- Foldable, lightweight and easy to install
- Retractable stand with three positions for optimal input and attachment holes for backpacks, tents, trees etc.

General Specifications - RI-ENERGYFLOW-PORTABLE-1500

Capacity	1210Wh (22.4V, 54Ah)
Output waveform	Pure S in Wave
Input (charge time)	AC Adapter: 27V, 8.5A (≈6.5 Hours) Solar charge: 12...29V, 4...7A (200W Solar ≈7 Hours) Car Charger: 12...14V, 5-8A (12V Input ≈12 Hours)
Output	AC Output *2: 100V...120Vac 50Hz/60Hz Rated Power: 1500W Peak Power: 2500W Car Socket Output x 1: 12V, 10A USB-A Output x 3: 5V, 2.4A USB-C Output x 1: 5V/9V/12V/15V/20V, 3A
LED light	2W
Management system	MPPT Controller, BMS
Cell type	LiFePO4 Battery
Lifespan	3500+ Life Cycles, 10-year service life
Charge Temperature	0°C...40°C
Discharge Temperature	-10°C...+40°C
Storage Temperature	-10°C...+40°C
Safety Protection	Temperature Control, Surge Protection, Short Circuit Protection etc.
Dimensions	400 x 210 x 290mm
Weight	16.2Kg
Warranty	5 Years

Certification & Standards

Certification	RoHS,FCC, UL2743, UN38.3
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Typical Device Usage

Phone (iPhone 13)	109 charges
Laptop (MacBook Pro - 65Wh)	18 charges
Microwave (1000W)	1 hour
Fridge (120W)	8.5 hours
Fan (40W)	26 hours
Car fridge (60W)	17 hours
TV (110W)	9.5 hours
Light (10W)	103 hours
Electric grill	0.9 hours
Electric drill	1 hour
CPAP (60W)	17 hours



General Specifications - RI-ENERGYFLOW-200

Peak Power	200W	
Cell conversion rate	23%	
Output Voltage (Max.)	19.8V	
Output Current (Max.)	10.1A	
Open Circuit Voltage	23.7V	
Short-Circuit Current	10.7A	
Operating Temperature	-40°C...85°C	
Dimensions	Folded:	640 x 550 x 50mm
	Unfolded:	2370 x 550 x 4.4mm
Weight	7.5Kg	
Warranty	12 Months	



Model Selection Table

Description	Model
1500W Power	RI-ENERGYFLOW-PORTABLE-1500
Station 200W Solar Panel	RI-ENERGYFLOW-200