BLUETTI Partners

BLUETTI | TECHNOLOGY PIONEER IN CLEAN ENERGY

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EN-V1.0

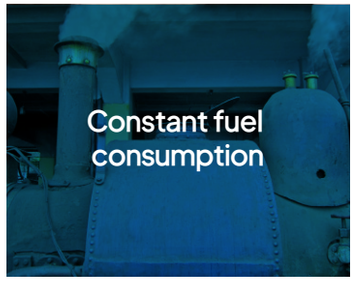
BLUETTI

RVSolar 48V Power System

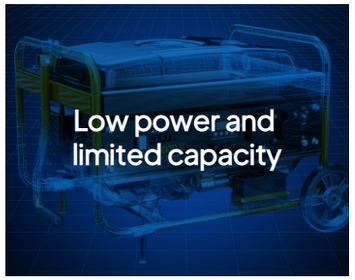
All the Power, Half the Hassle

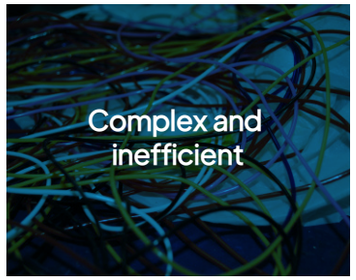
The Limits of Traditional RV Power

Generators & Shore Power



12V Electrical System

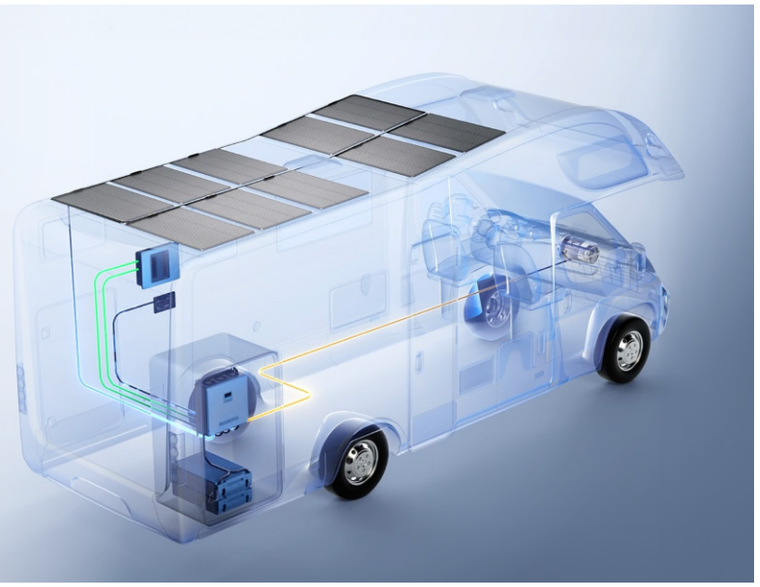




A Power Solution for Every RV

Delivering 6,000W of continuous power with a high-efficiency 48V system, this ready-to-use kit powers every adventure — no extra parts or setup required. Fast, flexible charging and automatic system checks keep performance strong and reliable, mile after mile.

- 17–Year Lifespan
- Silent Operation
- Maintenance-Free
- Campground Freedom
- Easy to Install
- Cost Effective



Bring Home Comfort Anywhere

Power air conditioners, microwaves, and coffee makers with ease, bringing the comforts of home wherever needed. With long battery life and a user-friendly design, this system delivers steady, reliable power — ideal for camping, RVing, or simply unplugging.

- Air Conditioner
- Microwave Oven
- Water Heater
- Hair Dryer
- Coffee Maker
- Refrigerator
- Lights
- Mobile Phone
- Water Pump
- Projector

Multiple Ways to Charge Fast

Everything Needed in One Package

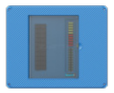
RV5 — 5 in 1 Power Hub

Combines inverter, solar controller, DC-DC converter, alternator charger, and protection module for easy plug-and-play power.

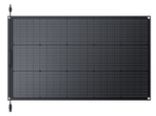
Note:
All components except the Epad are compatible with third-party products.

B4810 — 48V 100Ah LFP Battery
Durable with IP65 protection, 6,000 + charge cycles (about 17 years of use), and self-heating for cold weather down to -20°C (-4°F).

Epad — Central Control Screen
Real-time system monitoring and remote control, right at your fingertips.



Epanel — Smart Distribution Panel
Separate control and monitoring for AC and DC circuits.



PV100 FX — 100W Flexible Solar Panel
Lightweight and flexible to fit most surfaces.

Versatile 5kVA Power Hub for Mobile & Off-Grid Use

Built for high-demand setups like RVs, boats, and off-grid homes, this all-in-one system provides up to 6,000W of continuous power. With modular expandability and broad compatibility, installation is quick and easy — no experts needed. Create a smart, efficient energy network with minimal effort.

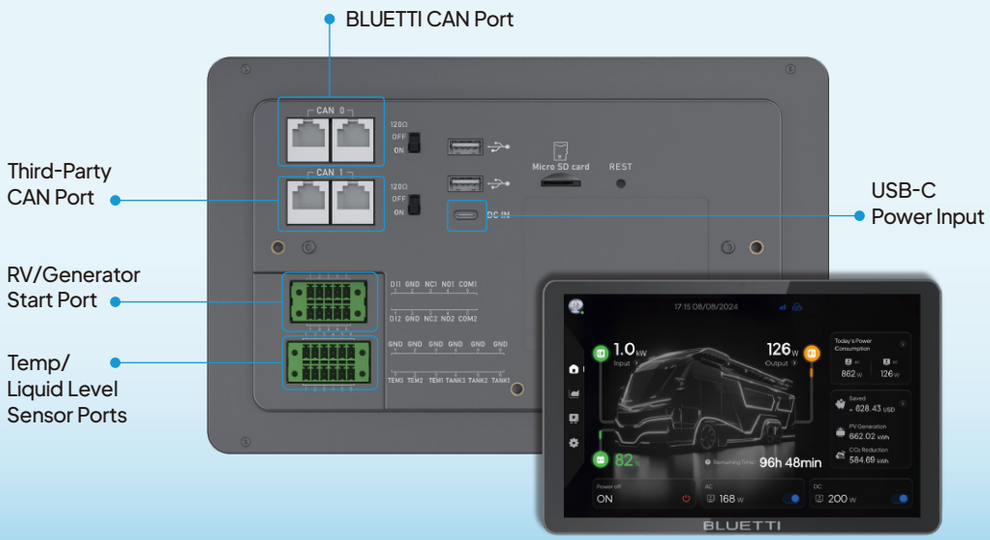
Smart Control, Seamless Connection

Wi-Fi & Bluetooth Connectivity

Real-Time Remote Control

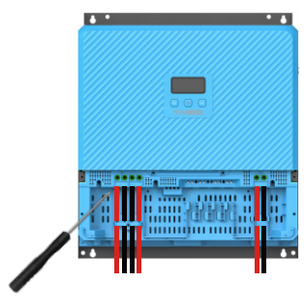
Energy Usage Tracking

Customizable Settings



Easy to Install

No complicated wiring, no endless debugging. The RV5 features an auto-recognition design, so you can tighten the screws and let the system configure itself by identifying voltage and current. Enjoy super quick and easy installation and get powered up in 30 minutes!



START » Step 01 Wiring Connection » Step 02 Battery Configuration » Step 03 PV2 Configuration » Step 04 DC Output Voltage Setup » Step 05 Max. Grid Input Current Setup » FINISH

Specifications

RV5
Power Hub

AC Input

Rated Input Voltage	120V (US/CA) 230V (EU/UK/AU)
Uninterruptible Power Supply (UPS)	Switchover time ≤20ms
Input Power	5,000W Max. (limited by battery terminal current)

AC Output

Rated Output Voltage	120V (US/CA) 230V (EU/UK/AU)
Rated Output Current	42A @ 120V 22A @ 230V
Rated Output Power	5,000W

DC Input — Solar (PV1/PV2)

Max. Input Power	1,800W
Input Voltage	12V to 50V
Max. Input Current	50A

DC Input — Vehicle Battery (PV2)

Max. Input Power	600W (12V battery) 1,200W (24V battery)
Input Voltage	12V to 14.4V (12V battery) 24V to 28.8V (24V battery)
Max. Input Current	50A

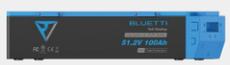
DC Output

Rated Output Voltage	12V/24V
Rated Output Current	100A @ 12V 60A @ 24V
Rated Output Power	1,360W @ 12V 1,620W @ 24V
Total Load Power	6,000W Max. (depends on battery type/quantity)

General

Weight	14 kg (30.86 lbs)
Dimensions	450 × 500 × 159.9 mm (17.72 × 19.69 × 6.30 in)
Operating Temperature	-20°C to 55°C (-4°F to 131°F)
Storage Temperature	-20°C to 70°C (-4°F to 158°F)
Operating Humidity	95% Max.
Certification	UL458

Specifications



B4810
48V Battery

Voltage	51.2V
Capacity	5,120Wh (100Ah)
Battery Type	$LiFePO_4$
Cycle Life	6,000+ cycles to 80% original capacity
Scalability	Up to 24 batteries in parallel (122kWh total)
Max. Continuous Discharge Current	100A
Self-Heating	Yes
Charging Temperature	0°C to 40°C (32°F to 104°F)
Discharging Temperature	-20°C to 40°C (-4°F to 104°F)
Storage Temperature	-20°C to 40°C (-4°F to 104°F)
Operating Humidity	5%–95% (RH)
Protection Rating	IP65
Weight	47 kg (103 lbs)
Communication	Bluetooth & RJ45 (CAN)
Warranty	2 years

Epanel
Smart Distribution Panel

AC Input

Rated Input Voltage	120V (US, CA) 230V (EU, AU)
Max. Input Current	50A

AC Output

Rated Output Voltage	120V (US, CA) 230V (EU, AU)
Max. Output Current	50A
Max. Output Current per Circuit	30A
Total AC Circuits	8 (4 smart-controlled)

DC Input

Input Voltage	10V to 30V
Max. Input Current	100A

DC Output

Rated Output Voltage	10V to 30V
Max. Output Current per Circuit	20A
Total DC Circuits	20 (6 smart-controlled)
Output Fuses	20 (one fuse per circuit)

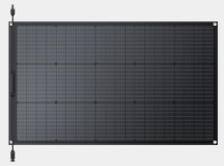
General

Weight	3.5 kg (7.7 lbs)
Dimensions	431.8 × 352.9 × 104.6 mm (17 × 13.89 × 4.12 in)
Operating Temperature	-20°C to 45°C (-4°F to 113°F)
Storage Temperature	-20°C to 70°C (-4°F to 158°F)
Protection Rating	IP20
Operating Altitude	< 2,000 m (6,561.68 ft)
Communication	Bluetooth / Wi-Fi / RJ45 (CAN)

Specifications

Epad
Central Control Screen

Display	10.1" LCD color touchscreen
Resolution	800 × 1280
Power Input	USB-C: 5V/3A (15W) RJ45: 12V to 60V, 1.5A (integrated power and data)
Communication Interfaces	BLUETTI CAN (for BLUETTI system integration)
	Expand BUS (for third-party device communication, supports NMEA 2000 and RV-C protocols)
	Ethernet RJ45 (10/100Mbps auto-negotiation)
	USB-A (5V/1.5A power output + data for updates/logs)
	MicroSD slot (supports SDHC up to 32GB)
Sensor Inputs	3 × Temperature sensor (-20°C to 70°C) 3 × Liquid level sensor (0–100% range) 2 × DI (smoke/CO concentration/alarm)
Control Inputs	2 × Relay (generator ignition signal/thermal protection)
Dimensions (H × W × D)	247 × 158 × 33.9 mm (9.7 × 6.2 × 1.3 in)
Weight	0.67 kg (1.48 lbs)
Protection Rating	IP20



PV100 FX
Flexible Solar Panel

Power

Max. Power	100W
Cell Lamination	HPC
Cell Type	Mono PERC
Cell Efficiency	Up to 23.4%
Open Circuit Voltage (Voc)	41.4V
Short Circuit Current (Isc)	3.05A
Voltage at Max. Power (Vmp)	34.5V
Current at Max. Power (Imp)	2.9A

General

Connector	Standard MC4 connector
Protection Rating	IP67
Weight	2.2 kg (4.8 lbs)
Dimensions	1,000 × 590 mm (39.4 × 23.2 in)
Operating Temperature	-10°C to 65°C (14°F to 149°F)
Best Working Temperature	25°C (77°F)
Warranty	12 months

Who We Are

Founded in 2009, BLUETTI has been a pioneer in clean energy solutions. With over 15 years of innovation and commitment to sustainability, BLUETTI has curated a diverse range of reliable products tailored for adventures, emergency backup power, and off-grid living, shaping a smarter, greener future we share.

1st
Manufacturer of both portable power stations and home ESS

1st
TUV S-mark certified energy storage system winner in Asia

1st
All-round IP65 water-resistant power station

1st
All-aluminum residential ESS

Top-funded
Power station on Indiegogo

R&D Achievements

From Day 1, the BLUETTI R&D team has been committed to transforming energy storage, usage, and management — empowering sustainable living both at home and outdoors.

179	Inventions
196	Utility Models
199	Appearance Design
1,000+	Patents

Logistic Network

30+ Global Warehouses

Partner with Us

Become a Dealer

Exclusive Benefits
- Special Discounts
- Sales Rebates
- Sales Leads

Inventory & Logistics
- Flexible Shipping
(Warehouse or Factory)

Performance-Based Benefits
- Special Incentives
- Flexible Payment Terms

Marketing Support
- Free Marketing Materials
- Co-Marketing Opportunities

Become an Installer

Core Benefits
- Special Discounts
- Direct Order Placement
- Sales Rebates
- Free Sales Leads

Inventory & Logistics
- Zero Inventory
(Ship Directly from BLUETTI)

Performance-Based Benefits
- Special Incentives

Professional Training
- Online & On-Site Technical Training
- On-Site Support by Local Teams