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3 IN 1 BALCONY POWER STORAGE SYSTEM

2,4KWh Capacity / Multi-functional Power Supply with Integrated Inverter Design

F2400/B2400
TECHNICAL SPECIFICATION

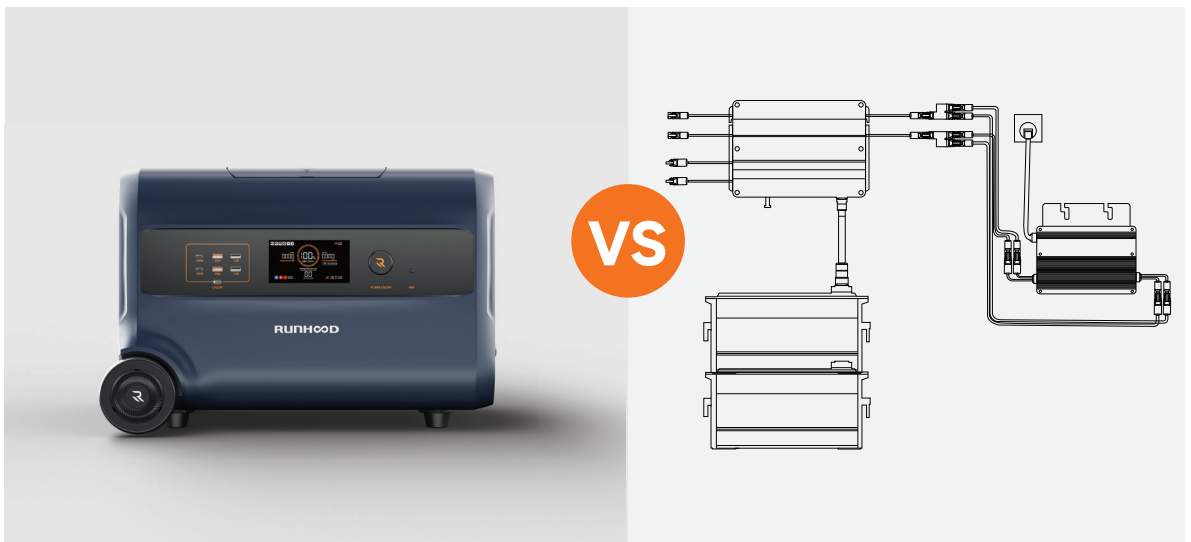




Highly Integrated Balcony Storage

RUNHOOD F2400 is an integrated micro grid-connected balcony power storage system. Thanks to the compact design, an external micro inverter and other hardware are no longer necessary. The one-step installation process saves time and money with no damage to walls or infrastructure. Installation takes just **five minutes**: simply connect a pair of cables to the solar panel, the F2400, and a wall outlet.

The entire system is portable and easily moved from one location to another, a big advantage and convenience to tenants or DIY enthusiasts.



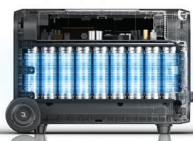


2,4KWh Capacity, Expandable to Maximum 19,2KWh

The F2400 and each B2400 expansion battery boasts a capacity of **2,4KWh**. F2400 and B2400 are equipped with larger power capacity in a smaller size. Expand battery capacity by adding up to **seven** additional B2400 to reach **19,2KWh** of banked power to meet demand.

Expansion to Maximum **19,2KWh**

Capacity
2.400 Wh



+ 7 Extension Batteries



Bidirectional Storage

With RUNHOOD bidirectional storage technology, you can power your home with solar energy, earn money by sharing energy with the grid, or charge the battery when electric prices are low. Homeowners can easily manage all of the functions with the RUNHOOD APP.



Intelligent Algorithm

Green Charging & Self-Consumption

RUNHOOD's intelligent algorithm with the use of RUNHOOD smart plug can help homeowner **achieve zero waste of power**. Set up the F2400 and smart plug with WIFI connection through the RUNHOOD App achieve on-demand power supply.

In Green Charging & Self-Consumption mode, the F2400 tries to **minimize the power import from the grid**. Solar power generated by the balcony is first consumed by the home loads. When excess solar power is available, it is used to charge the battery. If solar power is less than the home's power requirement, the F2400 battery is discharged to make up the deficit.



Timer Mode

In this mode, homeowners can schedule when to charge or discharge the F2400 to save money on their electrical bills. Set the timer to recharge the battery when prices are low in midnight. Use the power during peak rates to meet energy demand and save money.



Fully Charged Battery

In this mode, the RUNHOOD intelligent algorithm instruct the bidirectional inverter to charge the battery from solar power and grid power to 100%. This helps the battery be prepared for a black-out or any outdoor usage.

In the black-out case, F2400 will switch to UPS (uninterrupted power supply) within 10 ms and keep power supply to key appliance via the four off-grid ports.





Large Capacity Mobile Power Station

With sturdy design, rugged handles, and wheels, the F2400 is designed to be also used as a portable power source. With a 2,4KW output and 2,4KWh capacity, it's an ideal power supply for camping, outdoor activities, and road trips. Featuring four AC sockets and USB-C and USB-A ports, it's flexible to meet any power need.



Roof-Top PV Project Home Storage

The F/B2400 series can also be used for home storage in large roof-top solar projects to store more energy for nighttime use and meet the whole home's consumption demands.

Enjoy the flexibility of using the system as both a home ESS and a mobility power source. Simply disconnect the F2400 unit and you can take it with you wherever you go. Even with the main unit gone, remaining B2400s stay connected with the hybrid inverter, continuing to power your home storage system.

Product Appearance

F2400



B2400



Specifications



F2400

Battery Type	LiFePO4
Capacity	2.400Wh
Operating Voltage	40,5 - 54Vdc
Charging Current	40A Max.
Discharging Current	80A Max.
Operation Temperature	Charging -15°C~55°C Discharging -25°C~55°C
Working Altitude	2000m
Communication	CAN/RS485
Battery Life Cycles	8000 Cycles to 70%+ Capacity
Battery Scalability	1 F2400 + 7x Extra Battery B2400 19,2KWh Max.
Connectivity	Wi-Fi, Bluetooth
Weight	29kg
Dimension (L x W x H)	503mm x 323mm x 344mm
Installation Method	Floor Standing
Warranty	10 Years
Compliance	VDE4105, IEC62619, IEC62109, IEC61000, CE, RoHS, UN38.3
Compatibility with hybrid inverter	Deye, Goodwe, Megarevo, SolaX, Solis, SMA, Growatt*
Application	Balcony Power Storage System / Home ESS / Portable

Input

PV Input	12-60V, 25A Max, MPPT
AC Input	230Vac, 50Hz, 10A Max, 1.800W Max.

Output

ON-GRID	230Vac, 50Hz, 2.400W Max.
AC Output Port	230Vac, 50Hz, 2.400W Max. (peak 4.800W) x 4
BACK-UP	230Vac, 50Hz, 2.400W Max.
USB-A Output	2 ports 12W Max. 2 ports 28W Max.
USB-C Output	2 ports 100W Max.
Cigarette Lighter	120W 12V 10A

* Compatibility tests with different brands of inverters are continuously ongoing; results will be periodically updated.



B2400

Battery Type	LiFePO4
Capacity	2.400Wh
Operating Voltage	40,5 - 54Vdc
Charging Current	40A Max.
Discharging Current	80A Max.
Operation Temperature	Charging -15°C~55°C Discharging -25°C~55°C
Working Altitude	2000m
Communication	CAN/RS485
Battery Life Cycles	8000 Cycles To 70%+ Capacity
Battery Scalability	8 pcs B2400 19,2 KWh Max.
Weight	22kg
Dimension (L x W x H)	481mm x 289mm x 231mm
Installation Method	Floor Standing
Warranty	10 Years
Compliance	IEC62619, IEC61000, CE, RoHS, UN38.3
Compatibility with hybrid inverter	Deye, Goodwe, Megarevo, SolaX, Solis, SMA, Growatt*
Application	Expansion Battery / Home ESS with Hybrid Inverter

* Compatibility tests with different brands of inverters are continuously ongoing; results will be periodically updated.



Voltofy South Africa (Pty) LTD

1st floor Constantia Village Courtyard
Constantia Main Rd,
Constantia 7806
Western Cape
South Africa

www.voltofy.co.za