


# PS2400

## Portable Power Station

SKU: PIDPS2400

Nominal Voltage: **51.2 V**  
 Nominal Capacity: **40 Ah**  
 Nominal Energy: **2048 Wh**  
 Chemistry: **LiFePO4**  
 Applications: 

The Dakota Lithium PS2400 delivers dependable portable power for camping, overlanding, job sites, emergencies, and off-grid living. Already ready for the journey and always prepared for the unexpected, it packs 2048Wh of LiFePO4 energy and 2400W of pure sine wave output to run essential gear, charge fast, and keep your power close wherever the day takes you.

### Key Features:

- 2048Wh LiFePO4 battery capacity in a portable 55 lb package, with 2400W AC output and 4800W peak surge
- Pure sine wave power for sensitive electronics and everyday appliances
- Powers up to 8 devices and appliances at the same time
- Fast AC recharge in about 1.8 to 2.5 hours
- Solar input up to 800W max for off-grid recharging
- Smart LCD screen with real-time input, output, and runtime data
- Built-in LED light and wireless charging pad for added convenience
- Parallel capability doubles output to 4800W with a second PS2400



### Performance & Versatility:

- Delivers stable, reliable power for both heavy-duty equipment and sensitive electronics
- Built with LiFePO4 chemistry for long-lasting performance and dependable safety
- Runs refrigerators, freezers, TVs, laptops, phones, CPAP machines, and power tools
- UPS function with 10 ms switching helps protect essential devices during outages
- Multiple output options support AC, DC, USB-A, USB-C, and wireless charging needs
- Portable high-capacity backup power for home, travel, work, and off-grid use

### Warranty & Support:

- Backed by Dakota Lithium's best-in-class 5-year warranty and engineered for extreme durability, the PS2400 Portable Powerstation is a compact unit built for power you can count on in any environment.
- ISO 9001 Certified Quality
- U.S. Based Support & Service

### Applications:

- **Camping & Overlanding:**  
Ideal for powering fridges, lights, cooking gear, and personal devices off the grid
- **Emergency Home Backup:**  
Reliable backup power for refrigerators, freezers, phones, routers, and other essentials during outages
- **Job Sites & Mobile Work:**  
Great for running power tools, chargers, laptops, and equipment where utility power is not available
- **Tailgating & Outdoor Events:**  
Perfect for TVs, speakers, grills, fans, and device charging at camps, events, and game days
- **Off-Grid Cabins & Remote Setups:**  
Built for portable energy storage and dependable power in

# PS2400

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### GENERAL PARAMETER

Battery Type	Lithium Iron Phosphate
Rated Capacity	51.2V, 40Ah / 2048Wh
Net Weight	About 55 lbs (25 kg)
Product Size	16.9 × 11.8 × 11.0 in (430 × 300 × 280 mm)
Operating Temp.	14°F to 104°F (-10°C to 40°C)
Charging Temp.	32°F to 104°F (0°C to 40°C)
Storage Temp.	-4°F to 113°F (-20°C to 45°C)

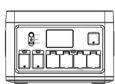
### INPUT

AC Charge Input Voltage	AC 100-130V
AC Charge Input Power	AC 1500W
Solar Charge Input	12-75V, 800W Max.
Car Charger DC	12V/24V, 192W Max.

### OUTPUT

AC Output Voltage*4	120V/60Hz
Rated AC Power Output	2400W(4800W Peak)
Power Output after 2-in-Parallel	4800W
Output Waveform	Pure Sine Wave
UPS Switching Time	10 ms
Cigarette Lighter Socket Output	12V/10A
DC Output*2	12V/5A
USB-A Output*2	5V/3A,9V/2A,12V/1.5A 18W Max.
USB-C Output*2	5V/9V/12V/15V,3A ; 20V/5A 100W Max.
Wireless Charger	10W
LED Light	5W

### ACCESSORY LIST



Principal Machine



User Manual



AC Wall Plug Power Cable



MC4-Anderson Connector



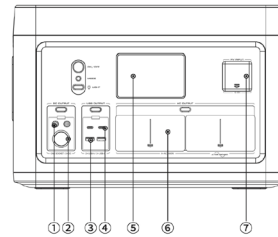
12V Car Anderson



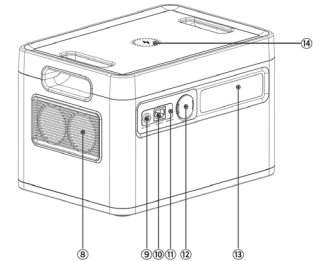
PS2400 Parallel Cable (optional accessory)

Recommend to use 120W/200W/300W/400W/600W/800W Solar Panels (not Included).

### INPUTS AND OUTLETS

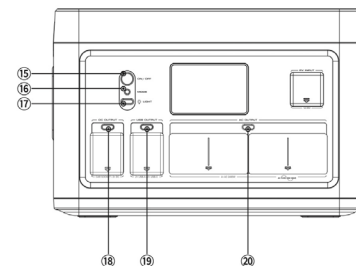


1. DC Output
2. Cigarette Lighter Socket Output
3. USB-A Output
4. USB-B Output
5. LCD Screen Display
6. AC Output 2400W X4
7. PV Input



8. Air Intake Vent with Cooling Fan
9. OLP Reset
10. AC Input
11. Earth Terminal
12. AC Parallel Interface
13. LED Light
14. Wireless Charger

### BUTTON FEATURES



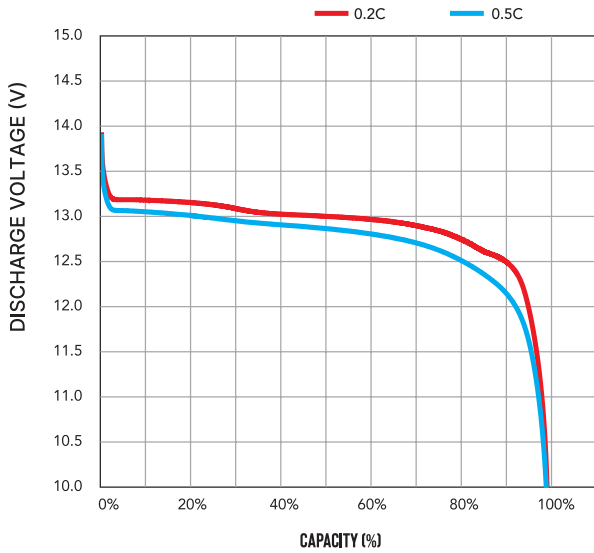
14. Wireless Charger  
Press "Power ON/OFF" Button to turn on the wireless charger. Press "Power ON/OFF" Button to shut down the output(s) when not in use.
15. Power ON/OFF  
Press the button (15) to turn on or turn off the equipment.
16. Mode  
Fast charge mode is on by default. Press the "Mode" button to switch to slow charge mode. The slow charge outputs one quarter of the maximum allowable power.
17. LED Light  
The LED light will function whether or not that "Power ON/OFF" button has been activated. Press the button (17) to turn on the LED light. Then press it again, to turn the light off.
18. DC Output  
Before pressing DC Output button (18) to turn on, please make sure the "Power ON/OFF" is ON first. To stop DC output, press (18) again.
19. USB Output  
Before pressing the USB Output button (19) to turn-on, please make sure the "Power ON/OFF" is ON first. To stop USB output, press (19) again.
20. AC Output  
Before pressing the AC Output button (20) to turn on, please make sure the "Power ON/OFF" is ON first. To stop AC output, press (20) again.

Note: All USB-C cables are different. If the USB-C port is not working, please try to use the AC adapter to charge.

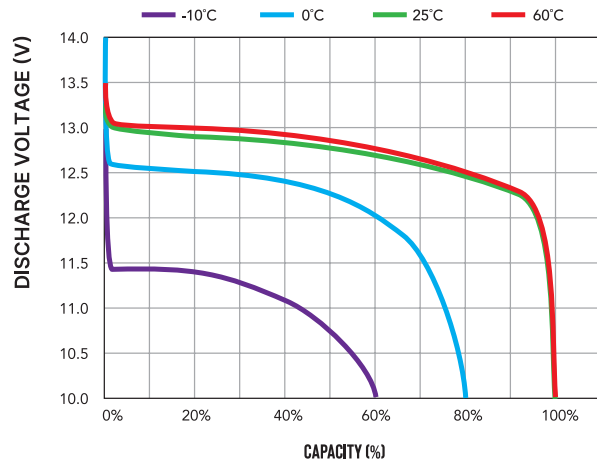
# Performed Operation Data

Disclaimer: Performance graphs are based on general LiFePO4 cell chemistry under controlled conditions. Actual results may vary slightly between individual battery packs.

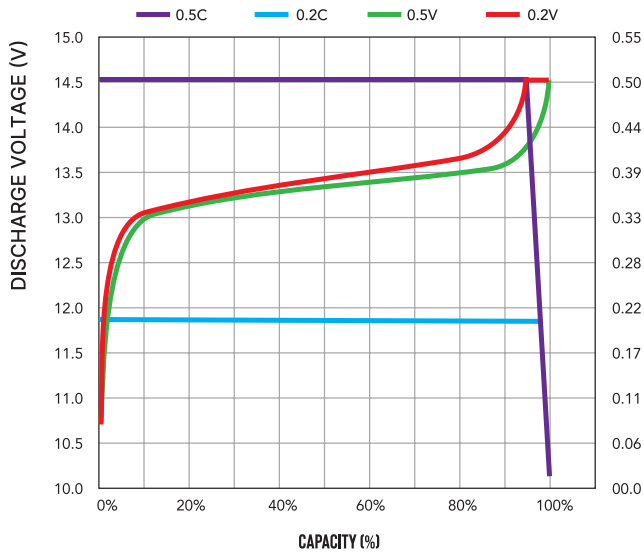
DIFFERENT RATE DISCHARGE CURVE @25°C



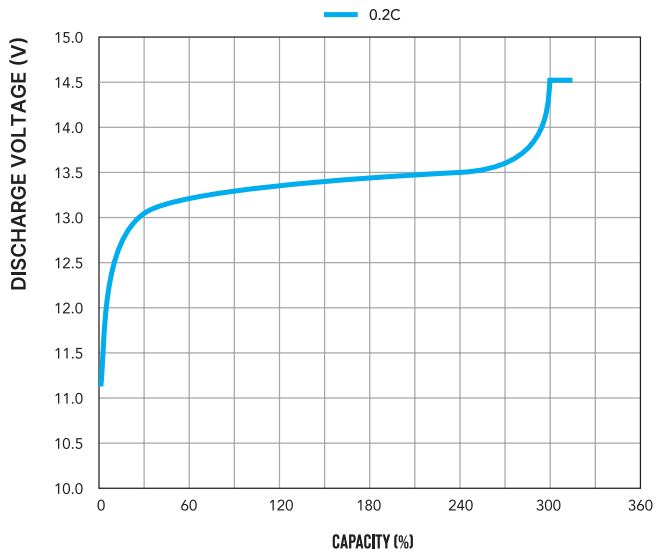
DIFFERENT temperature DISCHARGE CURVE @0.5C,25°C



CHARGE CHARACTERISTICS OF CAPACITY-VOLTAGE @0.2C&5C,25°C



CHARGE CHARACTERISTICS OF TIME-VOLTAGE @0.2C,25°C



CAPACITY RETENTION RATE (%)

DIFFERENT DOD DISCHARGE CYCLE LIFE CURVE @ 0.2C,25°C

