



USER MANUAL

NV-P36

Field range: Reinforced-case field power station



3 072 Wh

CAPACITY

3 600 W

CONTINUOUS

40 dB(A)

AT 1 M

34 kg

WEIGHT

230 V / 50-60 Hz · Pure sine wave · LiFePO₄

Read before first use

Coupez le moteur. Gardez le courant.

nvpowerstation.com

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This manual describes a portable power station using lithium iron phosphate batteries. Read it before first use and keep it for the life of the product. If the unit is sold on, pass this manual to the new owner.

Safety instructions

Warning. The manufacturer accepts no liability for damage arising from use that does not comply with this manual, or occurring in abnormal circumstances: fire, storm, flood, earthquake.

Transport

- Do not subject the unit to severe impacts, vibration or drops.
- Do not carry the unit on board an aircraft.

Environment

- Keep the unit away from water, heat sources, metal objects, chemicals and dusty atmospheres.
- Place it on a stable, level surface.
- Store it in a dry, well-ventilated place.
- Observe the temperature ranges given in the specifications.
- Do not use it near strong static electricity or intense magnetic fields.
- Keep it out of reach of children and pets.

Operation

- Never damage, repair, modify or disassemble the unit yourself.
- Use only original or recommended components and accessories.
- Switch the unit on before connecting appliances, and disconnect appliances before switching it off.
- Do not insert fingers, wires or metal objects into the sockets: risk of short circuit.
- Do not power medical equipment or precision instruments.
- Do not stack heavy objects on the unit.
- **Risk of electric shock.** Never power a tool used to cut into or drill through live parts, or through materials that may contain live wiring, such as a building wall.

Safety instructions (continued)

Emergency

- If the unit falls into water or gets wet, stop using it at once, place it in a safe, dry and ventilated area, then contact after-sales service.
- If the unit smokes or catches fire, use a fire extinguisher.
- If the unit has overturned and is severely damaged, wear insulating gloves to switch it off, then move it away from flammable materials and from people and have it disposed of under local regulations.

Recycling

- A unit that is severely damaged, faulty or at end of life must be properly disposed of or recycled.
- The unit contains batteries. Do not dispose of it with household waste: follow local regulations on battery disposal and recycling.
- Where possible, fully discharge the battery before disposal. Otherwise do not place it directly in a collection bin: use a professional battery recycler.

What's in the box



Illustrative packaging

The power station	× 1
58.4 V / 15 A mains charger with cord	× 1
MC4-to-WF20 solar cable	× 1
Car-socket-to-WF20 cable	× 1
Warranty card	× 1
User manual	× 1

Check the contents on delivery. If any item is missing or damaged, contact after-sales service before putting the unit into service.

Product description

The case travels closed: the connectors are protected in transit. The control panel sits under the lid (open the case to reach the outlets).



Front three-quarter, left



Front face



Front three-quarter, right



Side view



Front three-quarter,
right



Rear three-quarter,
left



Front



Back



Right side



Top: control panel

Control panel markings

Main Power

AC Output

Car Socket Output

PV Input

LCD Screen

USB-A / USB-C Output

DC Charge Input

Telescopic Handle

Signals, alarms and protections

The station has no fault-code display: it signals faults with the buzzer. The table below gives the exact meaning.

SIGNAL	CAUSE	WHAT TO DO
One short beep, repeating	Remaining charge below 10%	Recharge. The alarm stops above 10%.
Eight beeps, one-second cycle	230 V output overload	Unplug the excess load. The inverter restarts twice, then stays in alarm.
Eight beeps, restart every 14 s	Output short circuit	Clear the fault on the line. Recovery is automatic.
Five beeps, looping	Internal temperature too high	Clear the vents and let it cool. It restarts automatically below 80 °C.
One long continuous beep	Battery voltage out of range	Recharge if the battery is empty. Disconnect the source if the voltage is too high.

Protection thresholds

DC input range	41 to 61 V	Thermal cut-out	80 °C ± 5 °C
Low-voltage cut-out	40,8 to 41,2 V	Fan: load threshold	200 to 400 W
Low-voltage recovery	50 V ± 1 V	Fan: temperature threshold	45 °C ± 5 °C
Over-voltage cut-out	62 V ± 1 V	Conversion efficiency	≥ 90 %
Over-voltage recovery	58 V ± 1 V	No-load draw	≤ 0,6 A

After an overload or short-circuit trip, the inverter attempts two automatic restarts. Beyond that it stays in alarm: switch the station off, clear the fault, then switch it back on.

Getting started

Switching on and off

- a) Press and hold the main power button for a few seconds to switch the unit on or off.
- b) With the unit on, switch the 230 V output on before connecting appliances.
- c) Disconnect appliances before switching the unit off.

Reinforced case

The case does not open for routine maintenance and contains no user-serviceable parts. Any intervention goes through after-sales service.

Transport

Designed for transport: telescopic handle, wheels and impact-resistant shell. Carry the unit upright, with the output off and appliances unplugged. Strap it down in a vehicle to avoid repeated impacts.

This unit comes from a different manufacturer than the NV-C24, NV-W36 and NV-W50. Detailed control sequences and the error code table will be added as soon as the manufacturer's documentation is received.

Charging methods

Mains charging

- a) Connect the charging cable to the unit's DC input.
- b) Plug the charger into a 230 V wall socket.
- c) The input power appears on the screen.

Solar charging

- a) Connect the panels to the solar input.
- b) Observe the limits: 10 to 31 V at 10 A, or 31 to 80 V at 15 A, 800 W maximum.
- c) Three 240 W panels cover the available input.

Vehicle charging

- a) The vehicle input accepts 12 V and 24 V.
- b) Start the engine before connecting, so as not to flatten the vehicle battery.

Frequently asked questions

1. How do I clean the unit?

Wipe gently with a dry, soft, clean cloth or paper towel.

2. How do I store it?

In a dry, well-ventilated place at room temperature. Recommended range: -20 °C to 60 °C. Away from water, heat sources, metal objects and chemicals.

3. How do I maintain it?

Charge it to about 60 % and switch it off before long storage. For long-term storage, run a full cycle (discharge to 0 % then charge to 100 %) every three months. **The warranty no longer applies if the unit has been neither charged nor discharged for six months.**

4. What type of battery does the unit contain?

High-quality lithium iron phosphate (LiFePO₄) cells: the most stable and longest-lasting lithium chemistry.

5. Can it be charged from a generator?

Yes, from a generator delivering a pure sine wave. The manufacturer does not cover damage caused to an appliance by the use of a generator.

6. How do I know the unit is charging?

The capacity ring rotates on the screen and the input power is displayed.

7. Can it be taken on a plane?

No. Aviation regulations prohibit lithium batteries of this capacity on board a passenger flight.

Specifications · NV-P36

BATTERY

Rated capacity	3,072 Wh, 51.2 V / 60 Ah
Cell type	LiFePO4 40135, 20 Ah / 3.2 V, 16S3P configuration

230 V OUTPUT

Rated power	3,600 W
Peak power	7,200 W for 0.3 s · 5,400 W for 5.5 s
Continuous power	3,600 W with no derating at 25 °C
Waveform	Pure sine wave
AC outlets	2 × 220 V / 50 Hz outlet

USB AND 12 V OUTPUTS

USB-A	3 × 36 W max, 5 V/2.4 A · 9 V/2 A · 12 V/3 A
USB-C	3 × 60 W max, 5 / 9 / 12 / 15 / 20 V at 3 A
Car socket	12 V / 10 A, 120 W max

CHARGING INPUTS

Mains charging input	58.4 V / 15 A (876 W), full charge in 5 h · optional 20 A (1,168 W) charger
Solar input	10-31 V / 10 A · 31-80 V / 15 A, 800 W max
Solar regulation	Built-in MPPT
Vehicle charging	12 V / 24 V

Specifications · NV-P36 (continued)

GENERAL	
Body	Reinforced impact-resistant polymer case: telescopic handle and wheels
Ingress protection	IP50: dust protected, no protection against water
Operating temperature	Discharge -20 to 65 °C · charge 0 to 45 °C · storage -20 to 45 °C
Noise level	40 dB(A) at 1 m
Dimensions	560 × 450 × 230 mm
Net weight	34.0 kg
Compliance	CE · RoHS · FCC · UN38.3 transport report and SDS
Warranty	2 years

Warranty and contact

The warranty covers **defects in workmanship and material** for **2 years from the date of purchase**, parts and labour included. A replacement product carries the remaining warranty of the original.

Depending on the nature of the fault, service takes one of three forms: remote troubleshooting instructions; despatch of parts and instructions for repair on site; or return of the defective product and despatch of a new one.

Warranty extension. A third year can be taken out at the time of order, as a paid option. Please ask us for the price.

Exclusions

- Abnormal use, disassembly, accident, or use for anything other than normal use.
- Exposure to excessive heat, liquids or other external causes.
- Issues unrelated to product quality.
- Refunded products, products outside the warranty period, free products.
- A unit left for six months without any charge or discharge cycle.

The warranty is limited to the original purchaser and is not transferable.

Compliance

CE · RoHS · FCC. Dangerous goods transport: UN38.3 report and safety data sheet available on request.

After-sales service

Contact the dealer who supplied the station. Have the model reference, the serial number marked under the unit and the date of purchase to hand.