NV POWER STATION
NV-W36

WORKSITE RANGE: CONSTRUCTION, INDUSTRY AND EVENTS

3 072 Wh	3 600 W	7 000 W	30 mA
CAPACITY	CONTINUOUS	PEAK	RCD

TECHNICAL DATA SHEET

2014/30/EU (EN55032:2015/A11:2020 · EN55035:2017/A11:2020 · IEC 61000-3-2:2019 · EN61000-3-3:2013+A1:2019) · EMC 2014/35/EU (EN62368-1:2014+A11:2017) · LVD 2011/65/EU RoHS

Specification	NV-W36
BATTERY	
Rated capacity	**3,072 Wh**
Rated voltage	**51.2 V DC / 60 Ah**
Cell type	**Grade A LiFePO4: automotive cell**
Estimated service life	**3,000 cycles > 80% · 4,000 cycles > 70%**
Parallel expansion	**Up to 6 expansion batteries: the manufacturer's recommended maximum**
230 V OUTPUT	
Rated power	**3,600 W**
Peak power	**7,000 W**
Waveform	**Pure sine wave**
Voltage / frequency	**220-240 V, 50 Hz, switchable to 60 Hz**
AC outlets: EI version	**2 × 16 A European outlet + 1 × 32 A industrial outlet**
AC outlets: EE version	**3 × 16 A European outlet**
Per-outlet protection	**Thermal-magnetic breaker on every outlet**
Residual current protection	**30 mA residual current device**
Digital protection	**Overload, short circuit, over- and under-voltage**
Earth rod	**Not supplied in the box**
EPS switchover	**< 20 ms**
USB OUTPUTS	
USB-A	**5 V/3 A · 9 V/1.8 A · 12 V/1.5 A, 18 W max**
USB-C	**5 V/3 A · 7 V/2.4 A · 9 V/1.8 A · 12 V/1.5 A, 18 W max**
CHARGING INPUTS	
Mains	**190-250 V AC, 13 A max, 2,500 W**
Mains charging time	**≈ 1 h 24 min in fast mode · ≈ 2 h 48 min in slow mode**
Solar input	**Anderson: 12-148 V DC · MPPT 18-140 V · 15 A max · 2,100 W**
Solar regulation	**Built-in MPPT**
Compatible panels	**1 to 6 NV-S240 panels in series, 1,440 W · 1 to 6 NV-S100, 600 W**
Bypass mode	**Full rated power maintained**
Simultaneous charge and output	**Yes**
GENERAL	
Dimensions	**852 × 512 × 502 mm**
Net weight	**55 kg**
Ingress protection	**IP54 overall, IP67 outlets**
Operating temperature	**Discharge -20 °C to 40 °C · charging 0 °C to 40 °C · storage -20 °C to 60 °C**
App control	**Smartphone app: Bluetooth and Wi-Fi**
Compliance	**CE · RoHS · FCC**
Warranty	**2 years, optional 3rd-year extension**

KEY FEATURES

- **Fast charge in 1 h 24 min**, slow charge in 2 h 48 min, selected on the front panel.
- **Built-in 30 mA residual current device** and a thermal-magnetic breaker on every outlet: personal protection is inside the machine, not something to add around it.
- **Grade A LiFePO4 battery**, automotive-grade cell: 3,000 cycles above 80% capacity, 4,000 cycles above 70%.
- **Smart BMS**: cell balancing, thermal protection, shutdown on overload and short circuit.
- **Built-in MPPT**: panels connect directly, with no external charge controller.
- **IP54 chassis, IP67 outlets**: the unit stays outdoors.
- **50 Hz switchable to 60 Hz** from the front panel: the same machine serves European grids and 60 Hz grids.
- **Simultaneous charging and use**: the unit powers your tools while it recharges.

THREE CHARGING SOURCES

PRODUCT VIEWS

Front panel

1. Main power button

2. Control screen

3. 12 V socket

4. 230 V 16 A outlet, IP67

5. 230 V 16 A outlet, IP67

6. 32 A industrial outlet (EI version)

7. Earthing terminal

8. All-terrain wheels

9. Protection bar and handle

Right end: charging inputs

1. Ventilation grille

2. Fast / slow charging selector

3. Mains input, under cover

4. Anderson solar input

5. Input circuit breaker

Left end: expansion

1. Expansion battery port, under cover

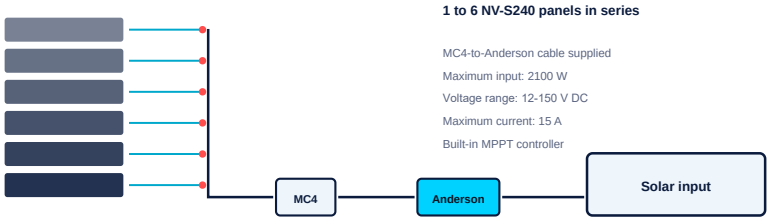
Two front-panel versions. EI: two 16 A outlets and one 32 A industrial outlet (shown). EE: three 16 A European outlets. The rear face is blank: all inputs are grouped on the right end, the expansion port on the left end.

Earthing. The 30 mA residual current device protects people only if the earthing terminal is connected to a compliant earth rod. The rod is not supplied.

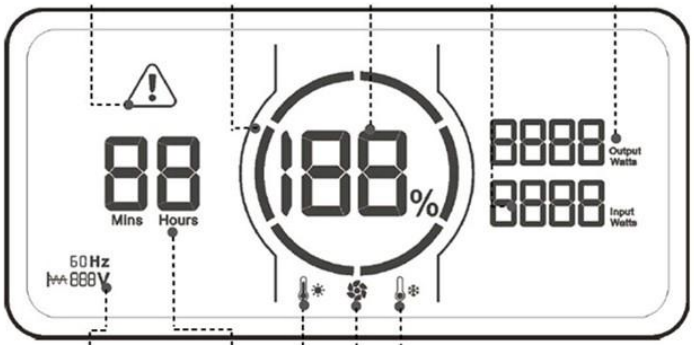
Illustration: not a contractual representation.

SOLAR CONNECTION

NV-S240: 240 W



CONTROL PANEL



1. Fault warning
2. Charge ring
3. Remaining capacity
4. Input power
5. Output power
6. Voltage and frequency
7. Remaining runtime
8. High-temperature alarm
9. Cooling fan active
10. Low-temperature alarm

IN USE

Core drilling

Surveying

Film set

NV-S240 solar charging

Illustration: not a contractual representation.

WHAT'S IN THE BOX

Illustrative packaging

The power station	× 1
Mains charging cable	× 1
MC4-to-Anderson cable (solar)	× 1
Warranty card	× 1
User manual	× 1

CONTACT

FRANCE / EUROPE

sales.fr@nvpowerstation.com

+33 6 18 90 48 45

MIDDLE EAST / UAE

sales.ae@nvpowerstation.com

+971 50 418 24 64

For a quotation, tell us the equipment to be powered, the runtime required per workstation and the number of units. A priced configuration is sent back within one working day.