

NV POWER STATION

NV-W50

WORKSITE RANGE: CONSTRUCTION, INDUSTRY AND EVENTS



5 040 Wh

CAPACITY

5 000 W

CONTINUOUS

7 000 W

PEAK

30 mA

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

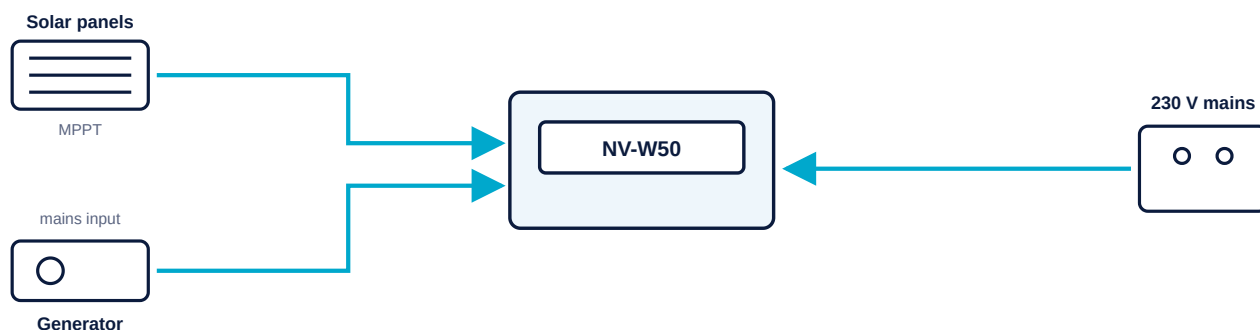


Specification	NV-W50
BATTERY	
Rated capacity	5,040 Wh
Rated voltage	48 V DC / 105 Ah
Cell type	Grade A LiFePO4: automotive cell
Estimated service life	3,000 cycles > 80% · 4,000 cycles > 70%
Parallel expansion	Up to 6 expansion batteries: the manufacturer's recommended maximum
230 V OUTPUT	
Rated power	5,000 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	≈ 2 h 30 min to full
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	68 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

- **5,000 W continuous, 7,000 W peak:** the most powerful in the range. Compressors, sump pumps, concrete mixers and breakers start without tripping the unit.
- **The best cost per stored kWh in the range:** the model that returns the most energy per euro invested.
- **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



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

Front panel



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.

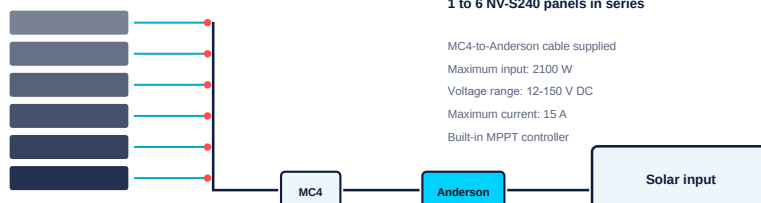
Earthing. The 30 mA residual current device protects people only if the earthing terminal is connected to a compliant earth rod. The rod is not supplied.

Illustration: not a contractual representation.

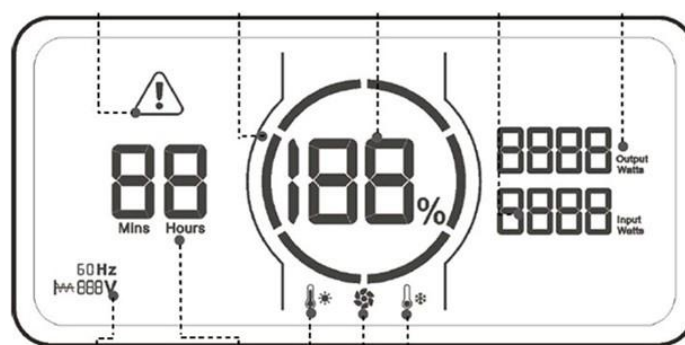
SOLAR CONNECTION



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



Mine site camp



Emergency pumping



NV-S240 solar charging

Illustration: not a contractual representation.

WHAT'S IN THE BOX



Illustrative packaging

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

CONTACT

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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.