

NV POWER STATION

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

TECHNICAL DATA SHEET

Low Voltage Directive 2014/35/EU (EN IEC 62368-1:2024+A11:2024) · EMC Directive 2014/30/EU (EN IEC 61000-6-3:2021 · EN IEC 61000-6-1:2019) · RoHS Directive 2011/65/EU and (EU) 2015/863 (EN IEC 63000:2018)



Specification	NV-P36
BATTERY	
Rated capacity	3,072 Wh, 51.2 V / 60 Ah
Cell type	LiFePO4 40135, 20 Ah / 3.2 V
Pack configuration	16S3P, 48 cells
Expansion	Not expandable: add a second unit on a separate circuit
Protections	Overload, short circuit, over- and under-voltage, high and low temperature
230 V OUTPUT	
Rated power	3,600 W, no derating at 25 °C
Peak power	7,200 W held 0.3 s · 5,400 W held 5.5 s
Waveform	Pure sine wave: THD < 3%
AC outlets	2 × 230 V / 50 Hz, type E/F
Conversion efficiency	≥ 90%
USB AND 12 V OUTPUTS	
USB-A	3 × QC 3.0, 36 W max (5 V/2.4 A · 9 V/2 A · 12 V/3 A)
USB-C	3 × PD, 60 W max (5 / 9 / 12 / 15 / 20 V at 3 A)
12 V output	1 × car socket 12 V / 10 A, 120 W max
Total outputs	9
CHARGING INPUTS	
Mains	58.4 V / 15 A charger, 876 W
Mains charging time	≈ 5 h to full
Optional fast charger	58.4 V / 20 A, 1,168 W
Solar input	800 W max, MPPT 11-31 V / 10 A · 31-80 V / 15 A
Solar regulation	Built-in MPPT
Vehicle charging	12 V or 24 V, cable supplied
GENERAL	
Dimensions	560 × 450 × 230 mm
Net weight	34 kg
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
Cooling	Fan control driven by load and temperature
Compliance	CE · RoHS · FCC
Box contents	Station · mains charger · car-socket cable · MC4 solar cable · manual and warranty card
Warranty	2 years, optional 3rd-year extension

KEY FEATURES

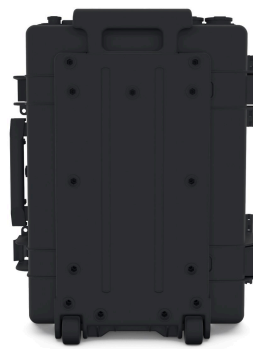
- **34 kg instead of 55 kg** for the same energy and the same power as the NV-W36. This is the model that reaches where a steel-bodied wheeled station cannot.
- **3,600 W continuous with no derating at 25 °C**: rated power holds until the battery is empty, not just for a few minutes.
- **7,200 W peak** for 0.3 s and **5,400 W for 5.5 s**: the inrush current of a compressor, a circular saw or a sump pump is absorbed.
- **40 dB(A) at one metre**: it runs in an occupied flat, an office floor or a stairwell without disturbing anyone and without time-of-day restrictions.
- **40135 LiFePO4 cells** in a 16S3P pack: only 48 cells, where an 18650 pack would need about three hundred. Fewer welds, fewer points of failure.
- **Three charging sources**: mains in 5 hours, 800 W solar with built-in MPPT, and the vehicle's 12 V or 24 V socket while driving.
- **Pure sine wave, THD below 3%**: safe for IT equipment, measuring instruments and variable-speed machines.
- **IP50**: site dust stays out. The case must be kept out of the rain.

Motor starting. The 7,200 W peak holds for only 0.3 second and absorbs the inrush current at switch-on. The useful window is 5,400 W for 5.5 seconds: that is what covers the start of a compressor, a sump pump or a saw. Beyond that, fit a soft starter or move up the range.

PRODUCT VIEWS



Front three-quarter, left



Front face



Front three-quarter, right



Side view


Front three-quarter,
right


Rear three-quarter, left



Front



Back



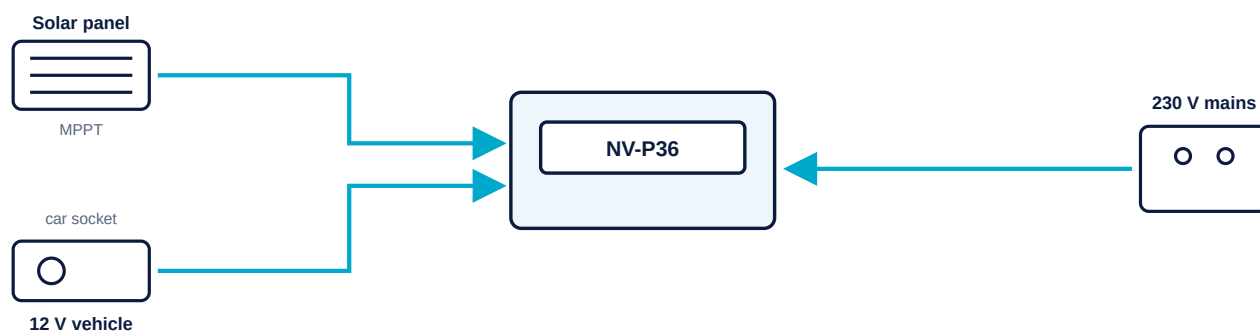
Right side



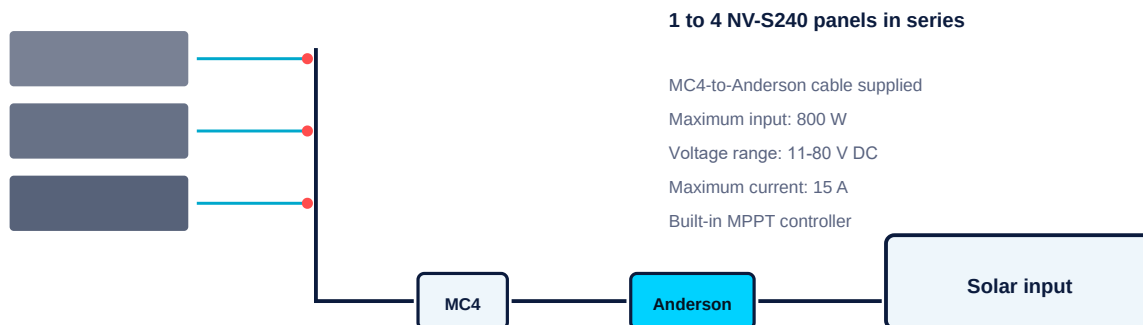
Top: control panel

Views generated from the manufacturer's design file. The control panel sits under the lid: the case opens to reach the outlets, which protects the connectors in transit.

THREE CHARGING SOURCES



SOLAR CONNECTION

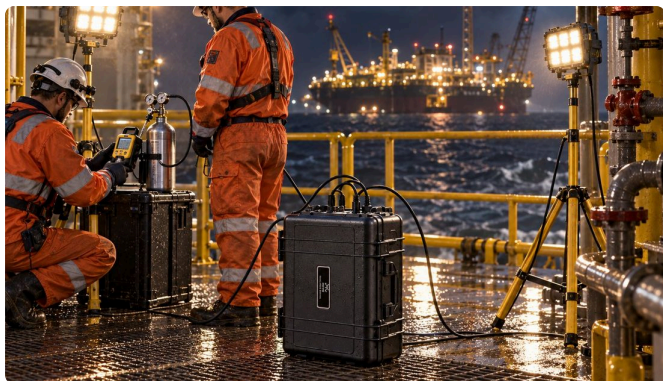


WHAT THE NV-P36 RUNS

EQUIPMENT	RUNNING	RUNTIME
LED site lighting: 4 floodlights	200 W	13 h 03
Site office: 2 PCs, printer, router	400 W	6 h 32
Drill / driver	800 W	3 h 16
Site-camp refrigerator	150 W	17 h 24
Electric breaker	1 600 W	1 h 38
Circular saw	1 800 W	1 h 27
160 A MMA welder	3 500 W	0 h 45

Runtimes calculated on 85% of rated capacity with the appliance running continuously. Equipment that cycles (hand tools, a refrigerator) gives a considerably longer runtime. Equipment ratings are indicative: check the nameplate. The welder on the last line exceeds rated power: it is given as a limit reference, not as a recommended use.

IN USE



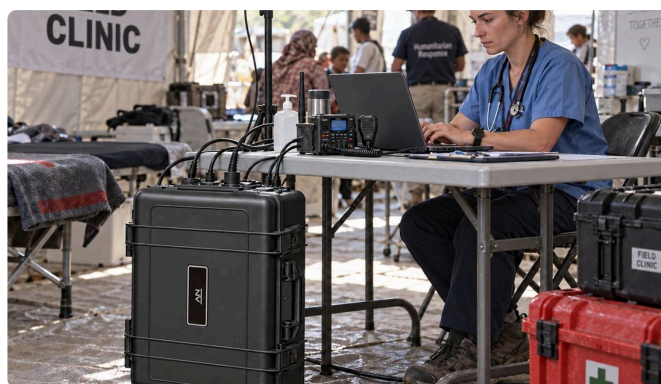
Offshore measurement



Open-pit mine



Film set



Field medical post

Illustration: not a contractual representation.

WHAT'S IN THE BOX



Illustrative packaging

The power station	x 1
58.4 V / 15 A mains charger with cord	x 1
MC4-to-WF20 solar cable	x 1
Car-socket-to-WF20 cable	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.