

The NeoVolta NV14 is a complete, fully integrated Alternating Current (AC) or Direct Current (DC) Hybrid (120V / 240V) Residential Energy Storage System (ESS). It includes a Lithium Iron Phosphate (LiFePO4) rechargeable battery system for photovoltaic energy conversion and storage, which allows consumers to use their own solar generation after the sun has set. The NV14 also allows consumers to power their homes in grid outages using either their solar or their stored energy in the battery system.

INVERTER SPECIFICATIONS

BAT Voltage	48 V DC (42 V - 58 V)
BAT Current	175 A DC
AC Voltage	120 V / 240 V AC (Split Phase)
AC Frequency	60 Hz (59.5 Hz - 60.5 Hz)
AC Input/Output Current	32 A AC (grid tie)
AC Input Power	7,680 W

Output

Nominal AC Power Output	7,680 W
Max. AC Power Output	8,448 W
Max. Continuous Output Current	32A AC

PV Input

Max. AC Power Input Current*	32A AC
Max. DC PV Power Input (STC)**	8,448 W
MPPTs	2 (2 strings) (5,000 Watts and 500 V per MPPT)

BAT Discharge Power 7,680 W (8,448 W max)

Operating Temperature -25.C to 60.C (>45.C derating)

DC = Direct Current AC = Alternating Current W = Watts
V = Volts A = Amps Hz = Hertz

* A higher PV current source may be used up to 40A Continuous; the inverter will limit its input current to the values stated.

**A higher PV Power Input may be used up to 10,000 W; the inverter will limit its input to the values stated.

BATTERY SPECIFICATIONS

NOMINAL CHARACTERISTICS

Nominal Voltage	48 V
Typical Capacity	100 Ah (25.C)
Typical Energy	14,400 Wh
Volumetric Density	122.3 Wh/dm
Gravimetric Density	102.1 Wh/Kg

ELECTRICAL CHARACTERISTICS

Voltage Window	42.0 V ~ 54.0 V
Max Permanent Discharge Current	100 A
Max Permanent Charge Current	100 A
Energy Charge Efficiency	94% (20.C)

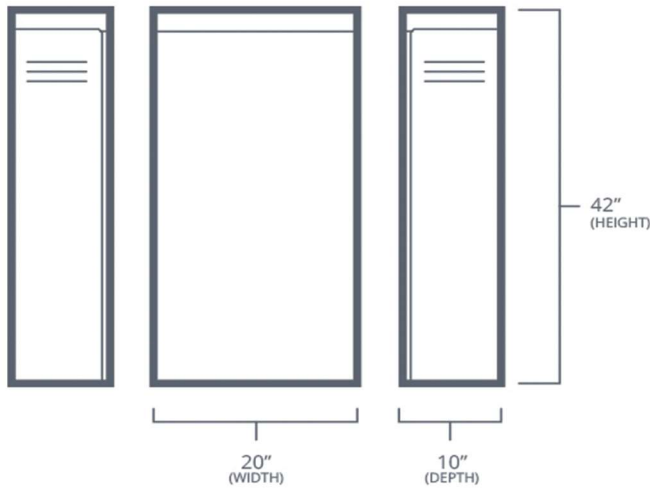
OPERATION ENVIRONMENT

Charge Temperature	0.C to 55.C
Discharge Temperature	-20.C to 60.C
Storage Temperature	-20.C to 60.C



QUESTIONS
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The NeoVolta NV24 is an additional battery capacity option. When combined with the NV14, total energy storage capacity is increased from 14.4 kWh to 24.0 kWh of Lithium Iron Phosphate (LiFePO₄) rechargeable battery.

BATTERY SPECIFICATIONS

NOMINAL CHARACTERISTICS

Nominal Voltage	48 V
Typical Capacity	100 Ah (25.C)
Typical Energy	24,000 Wh
Volumetric Density	122.3 Wh/dm
Gravimetric Density	102.1 Wh/Kg

ELECTRICAL CHARACTERISTICS

Voltage Window	42.0 V ~ 54.0 V
Max Permanent Discharge Current	100 A
Max Permanent Charge Current	100 A
Energy Charge Efficiency	94% (20.C)

OPERATION ENVIRONMENT

Charge Temperature	0.C to 55.C
Discharge Temperature	-20.C to 60.C
Storage Temperature	-20.C to 60.C

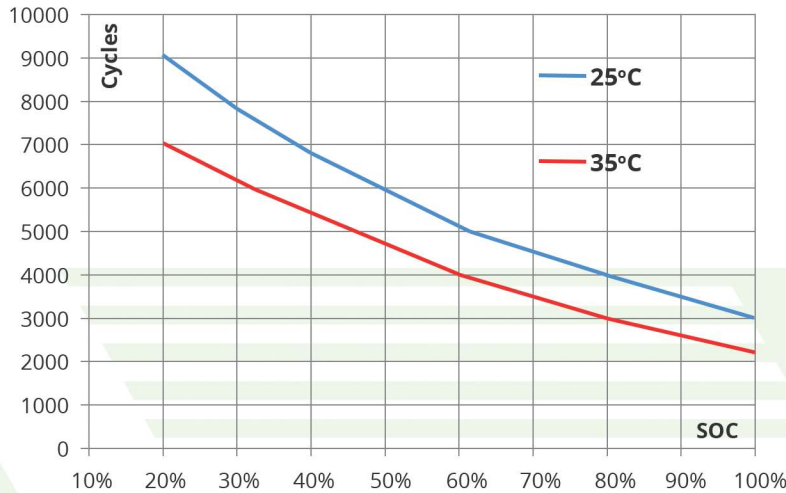
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NV14/24 CYCLE LIFE VS DEPTH OF DISCHARGE



*A cycle is considered one full charge and one full discharge.

NV14/24 ENERGY STORAGE SYSTEM SPECIFICATIONS

- Underwriters Laboratories (UL) 9540, 9540a, 1973, 1741, 1741 SA, 1642, and 1699B Arc Fault Circuit Protection Type 1
- Institute of Electrical and Electronics Engineers (IEEE) 1547 (2003 standard)
- International Electrotechnical Commission (IEC) 62897
- Electrical Codes: National Fire Codes (NEC) 2017
- California Public Utilities Commission (CPUC) Rule 21 Interconnection
- Hawaii Electric Companies Source Requirement Document Version 1.1 (SRD-UL-1741-SA-V1.1)
- CSA Group C22.2 No. 107.1:2001 Ed. 3
- Federal Communications Commission (FCC) 15 Class B
- National Electrical Manufacturers Association (NEMA) Type 3R
- California Energy Commission (CEC): Grid Support Utility, Utility Interactive, Energy Storage System



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