NEOVOLTA

USA Domestic Content Eligible For North America

NV24-US

NV14-US

Inverter & Storage System

NV14-US

Headquartered in Poway, California since 2018

All-In-One Unit

On Grid & Off Grid

DC & AC Solar Capable

Generator Ready

Up to 24 kWh

For support scan here

800.364.5464

NEOVOLTA.COM

NEOVOLTA™

NV14-US

PV String Input Data

Max. PV Input Power* (W)	11,400**
Max. PV Input Voltage (Voc)	500
Startup Voltage (Vmp)	125
MPPT Voltage Range (Vmp)	150-425
Max. Operation PV Input Current (A) @ MPPT	25+25
Max. Input Short-Circuit Current (A) @ MPPT	44+44
MPPT | Strings per MPPT	2 | 2+2 (each string protected by SPF 25A Fuse)
Max AC Solar/ Generator Input (W)	8360

*Max. PV Input Voltage of 500Voc shall be calculated at coldest operating temperature of installation locations.
** Inverter will self-limit to 11,400W of max combined solar input.

Battery Input Data (DC)

Battery Type	Lithium Iron Phosphate (LiFePO4)
Battery Voltage Range (V)	44-54
Max. Charging / Discharging Current (A)	100/150
Nominal Energy Capacity (kWh) NV14 | NV24	14.4 | 9.6
Recommended Battery DoD	Cycle Life 6000+ (80% DoD, 25 °C)
Charging Strategy for the Li-on Battery	BMS
Number of Battery Terminals	1 x positive, 1 x negative
Battery Heating System	None

AC Output (On-Grid)

Nominal AC output (W)	7,600
Max. AC Output (VA)	8,360
Nominal AC Output (A)	31.7
Max. AC Coupled Output (A)	34.8
Grid Connection	2L + N + PE

AC Output Data (Back-Up)

Peak Power (off-grid) (W)	2 times rated power (15,200W); 10s
Power Factor Settings Range	0.9 leading - 1.0 lagging
Nominal Output Voltage | Voltage Range (V)	120/240, Split Phase
Nominal Output Frequency | Frequency Range (Hz)	60 | 55-65
Total Current Harmonic Distortion (THDi)	<3% (of nominal power)

Environment

Operating Temperature F / C	Discharging: -4°F ~ 122°F / -20°C ~ 50°C Charging: 32°F ~ 113°F / 0°C ~ 45°C"
Humidity level (%)	<=100%
Max. Elevation	2000m/6561ft (10% derating at 3000m/9842ft)
Noise (dB)	30dB
IP Rating/ NEMA	IP24 / NEMA 3R
Cooling Method	Intelligent Air Cooling

General

Communication	RS485 | RS232 | CAN | WiFi | 4G | LAN (optional)
Integrated	Protection: DC Polarity Reverse Connection, AC Output Overcurrent, Thermal, AC Output Overvoltage, AC Output Short Circuit, Overvoltage Load Drop, Surge Monitoring: DC Component, Ground Fault Current, Power Network, Island Protection, Earth Fault Detection, DC Input Switch, DC Terminal Insulation Impedance, Residual Current (RCD) Detection, Arc Fault Circuit Interrupter (optional)
Surge Protection / Typology	Type II (DC), TYPE II (AC) / Non-Isolated
Expansion Cabinet Available - NV24	Nominal Battery Energy -- 9.6kWh AC
Overcurrent Protection Device (A)	40
Load Start Capability* (A)	80
Overvoltage Category	OVC II (DC), OVC III (AC)
Mounting Options	Floor Mount
Dimensions (W x H x D) in/mm NV14 | NV24	NV 14 38" × 50" × 10" / 965 × 1270 × 254 | NV24 20" × 42" × 10" / 508 × 1067 × 254
Weight (lbs/kg) NV14 | NV24	NV14 575 / 260 | NV24 270 / 122
Max Efficiency (%)	97.60%
MPPT Efficiency (%)	>99.0%
Weighted Efficiency (%)	96.50%
Warranty	15 years
Grid Regulations | Certifications	UL9540 | UL9540A | IEEE1547.1 SRD V2.0 | UL1741 CRD | UL1741 SB | UL1699B | CSA C22.2 NO 107.1-16 | CA Rule No. 21 CEC | HECO | LUMA | SGIP

*Load start capability may vary