NEOVOLTA

Inverter & Storage System

NV14

Headquartered in Poway, California since 2018

USA Domestic Content Eligible* For North America

All-In-One Unit

On Grid & Off Grid

DC & AC Solar Capable

Generator Ready

For support scan here

800.364.5464

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NV14

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)	40.5-54
Max. Charging / Discharging Current (A)	100/150
Nominal Energy Capacity	14.4
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	Type II (DC), TYPE II (AC)
Typology	Non-Isolated
Overcurrent Protection Device	40A
Load Start Capability*	80A
Overvoltage Category	OVC II (DC), OVC III (AC)
Mounting Options	Floor Mount
Dimensions (W x H x D) in/mm	38" × 50" × 10" / 965mm × 1270mm × 254mm
Weight (lbs/kg)	66lbs / 29.94kg
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

*Load start capability may vary