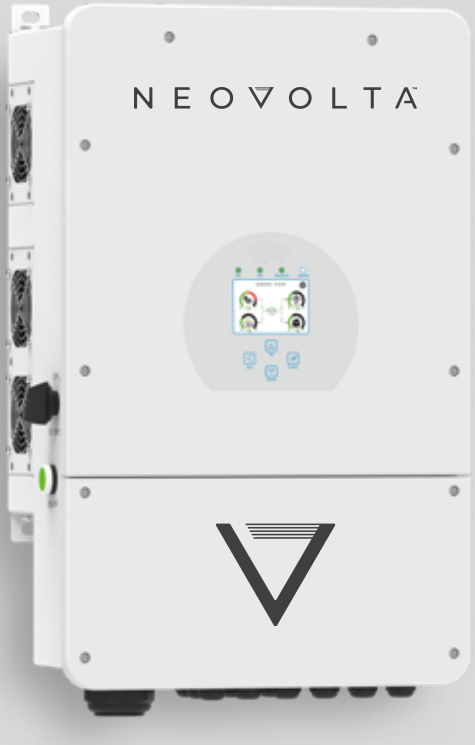
NEOVOLTA

# Hybrid Inverter

## NV7600

Designed, Engineered, and
Assembled in California since 2018




**On Grid and Off Grid**

**Generator Ready**

**DC, AC, Both**

**Integrated Gateway**

**PCS Included**

**Max. 16 pcs Parallel**

**NEMA 3R**

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# NV7600

## PV String Input Data

| | |
|---|---|
| Max. PV Input Power (W) | 16 kW DC* \| 9.2 kW AC |
| Max. PV Input Voltage (V) | 500 |
| Start-up Voltage (V) | 125 |
| MPPT Voltage Range (V) | 150-425 |
| Rated PV Input Voltage (V) | 370 |
| Max. Operating PV Input Current (A) | 26+26 |
| Max. Input Short-Circuit Current (A) | 44+44 |
| No. of MPPT's/No. of Strings per MPPT | 2/2+2 |

*Size is dependent on module and location. Follow the QR code at the bottom to design maximum string sizing. Do not exceed 500VOC.

## General Data

| | |
|---|---|
| Operating Temperature Range °(F) | -40 to +140°F, >113°F Derating |
| Permissible Ambient Humidity | 0-100% |
| Permissible Altitude | 2000m (10% derating up to 3000m) |
| Noise (dB) | <30 |
| Ingress Protection (IP) Rating | TYPE3R |
| Inverter Topology | Non-Isolated |
| Over Voltage | OVC II (DC), OVC III (AC) |
| Category Cabinet Size (WxHxD mm) | 420 x 670 x 233 (Excluding Connectors and Brackets) |
| Weight (kg \| lbs) | 35 \| 77 |
| Type of Cooling | Intelligent Air Cooling |
| Grid Regulation | IEEE 1547.1, SRD V2.0 |
| Safety / EMC Standard | UL 1741 |
| Warranty | 15 Years** |
| Load Start Capability | 80A (160A in parallel configuration) |

** The Warranty Period Depends the Final Installation Site of Inverter, For More Info Please Refer to Warranty Policy

## Compliance Information

**Certifications**: UL 9540, UL1741, UL1741SB, IEEE 1547, | IEEE 1547A, IEEE 1547.1,

Scan QR Code for NV7600
Maximum Solar STC Input
Design maximum string sizing

## AC Input/Output Data

| | |
|---|---|
| Rated AC Active Power (W) | 7600 |
| Max. AC Apparent Power (VA) | 8360 |
| Rated AC Current (A) | 31.7 |
| Max. AC Current (A) | 34.8 |
| Max. Continuous AC Passthrough (grid to load) (A) | 50 |
| Peak Power (off-grid) (W) | 2 times of rated power, 10s |
| Power Factor Adjustment Range | 0.9-1 |
| Rated Voltage/Range (V) | 120/240; 208 |
| Rated Grid Frequency/Range (Hz) | 60/55-65 |
| Grid Connection Form | 2L+N+PE |
| Total Current Harmonic Distortion THDi | <3% (of nominal power) |
| DC Injection Current | <0.5% In |
| Max. parallel for on-grid and off-grid | 16 (PCS) 120/240V<br>10 (PCS) 120/208V |

## Efficiency

| | |
|---|---|
| Max. Efficiency | 97.6% |
| MPPT Efficiency | >99.9% |

## Interface

| | |
|---|---|
| Communication Interface | RS485/RS232/CAN |
| Monitor Mode | GPRS/WiFi/Ethernet |

## Battery Input Data

| | |
|---|---|
| Battery Type | Lithium Iron Phosphate |
| Battery Voltage Range (V) | 40-60 |
| Max. Charging Current (A) | 190 |
| Max. Discharging Current (A) | 190 |
| Charging Strategy for Li-ion Battery | Self-adaption to BMS |
| Number of Battery Inputs | 1 |

## Equipment Protection

Integrated:

DC Polarity Reverse Connection Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Overvoltage Load Drop Protection, Ground Fault Current Monitoring, Arc Fault Circuit Interrupter (optional), Power Network Monitoring, Island Protection Monitoring, Earth Fault Detection, DC Input Switch, DC Terminal Insulation Impedance Monitoring, Residual Current (RCD) Detection, Surge protection level