

NEOVOLTA™



Hybrid Inverter

NV7600

Designed and Engineered in
California since 2018

Compact Design
On Grid and Off Grid
DC and AC Solar
Generator Ready
Stackable



800.364.5464

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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 |
| Rated PV Input Voltage | 370 |
| Max. Operation PV Input Current (A) @ MPPT | 26 +26 |
| Max. Input Short-Circuit Current (A) @ MPPT | 44+44 |
| MPPT Strings per MPPT | 2 2+2 |

*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.

AC Input/Output Data

| | |
|---|---------------------------------------|
| Rated AC Output (W/VA) | 7,600/8360 |
| Max. AC Solar or Generator Input | 8,360 |
| Rated AC Input/Output (A) | 31.7 |
| Max. AC Input/Output (A) | 34.8 |
| Max. Continuous AC Passthrough (grid to load) (A) | 50 |
| Peak Power (off-grid) (W) | 2 times rated power (15,200W); 10s |
| Power Factor Adjustment Range | 0.9 - 1.0 |
| Rated Input/Output Voltage Voltage Range (V) | 120/240; 208/3-Phase |
| Rated Input/Output Frequency Frequency Range (Hz) | 60 55-65 |
| Grid Connection Form | 2L + N + PE |
| Total Current Harmonic Distortion (THDi) | <3% (of nominal power) |
| Max. Parallel for on-grid and off-grid* | 4(pcs) 120/240Vac 3(pcs) 120/208Vac |

*This is for inverter paralleling ONLY. NV7600 w/ NVPLUS is UL9540 listed for (4) inverters w/ (5) batteries

Battery Input Data (DC)

| | |
|--------------------------------------|------------------------------------|
| Battery Type (Compatible) | Lithium Iron Phosphate (LiFePO4) |
| Battery Voltage Range (V) | 4-60 |
| Max. Charging Current (A) | 190 |
| Max. Discharging Current (A) | 190 |
| Charging Strategy for Li-ion Battery | Self-Adoption BMS |
| Number of Battery Input | 1 (2 wires; positive and negative) |

Equipment

| | |
|-------------------------|--|
| 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) |
| Communication Interface | RS485 RS232 CAN |
| Monitor Mode | GRPS WiFi Bluetooth 4G LAN (optional) |

General Data

| | |
|---------------------------------------|--|
| Operating Temperature | -40F - 140F |
| Humidity Limit (%) | up to 100 |
| Max. Elevation | 2000m/6561ft (10% derating at 3000m/9842ft) |
| Noise (dB) | <30 |
| IP Rating | TYPE 3R |
| Typology | Non-Isolated |
| Overvoltage Category | OVC II (DC), OVC III (AC) |
| Dimensions (W x H x D) Weight (lbs) | 16.5" x 26.4 x 9.2" 66 |
| Cooling | Intelligent Air Cooling |
| Max. Efficiency (%) | 97.6 |
| MPPT Efficiency (%) | >99.0 |
| Warranty | 15 years |
| Grid Regulation Certifications | IEEE1547.1 SRD V2.0 UL1741 CRD UL1741 SB UL1699B CEC |
| Load Start Capability* | 80A |

*Load start capability may vary
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