

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

800.364.5464

NEOVOLTA.COM

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 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