NEOVOLTA



Hybrid Inverter NV16kW

Designed and Engineered in California since 2018

Plug & Play
120/240Vac Split Phase
120/208Vac 3 Phase
200A pass through
Generator Ready
AC-Solar Ready
Smart Load Ready



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NV16kW

| PV String | Input | Data | |
|------------------|-------|------|--|
|------------------|-------|------|--|

| Max. PV Input Power* (W) | 24,000* |
|--|-----------------------------------|
| Max. PV Input Voltage (Voc) | 500 |
| Startup Voltage (Vmp) | 120 |
| MPPT Voltage Range (Voc) | 120-500 |
| MPPT Voltage Range at Full Load (Vmp) | 150-430 |
| Max. Input Current MPPT (A) @ MPPT | 20/20/20 (self-limiting/clipping) |
| Max. Input Short-Circuit Current (A) MPPT No | 25A/25A/25A |
| of MPPT Strings per MPPT | 4 2 2 |

^{*}Max. PV Input Power is limited to 500Voc and 20A per MPPT. 500Voc for DC string sizing MUST include adj. for cold temperature.

AC Input/Output Data

| Rated AC Output (W) | 16,000W |
|---|---|
| Max. Input AC-Solar/Gen. | 16,000W |
| Rated AC Output Grid (A) | 66.7/73.3 max |
| Max. AC Output BAT. (W) | 13,000 / 16,000 w. DC-PV |
| Max. Continuous AC Passthrough (grid to load) (A) | 200 |
| Peak Power Off-Grid & Surge Capacity (VA) | 13,200 / 110%, 30s / 120%, 10s / 180%, 0.1s |
| Power Factor Adjustment Range | 0.8leading – 0.8lagging |
| Rated Input/Output Voltage Voltage Range (V) | 120/240; 208 0.88Un <u<1.1un< td=""></u<1.1un<> |
| Rated Input/Output Frequency Frequency Range (Hz) | 60 55-65 |
| Grid Connection | 2L + N + PE |
| Total Current Harmonic Distorion (THDi) | <3% (of nominal power) |
| DC Injection Current | <0.5% in |
| Max. Parallel for on-grid and off-grid | 3(pcs) 120/240Vac 3(pcs) 120/208Vac |

Battery Input Data (DC)

| Battery Type (Compatible) | Lithium Iron Phosphate (LiFePO4) |
|--------------------------------------|------------------------------------|
| Battery Voltage Range (V) | 40-58 |
| Max. Charging Current (A) | 260/280 |
| Max. Discharging Current (A) | 260/280 |
| 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 (DC), TYPE (AC) |
|-------------------------|-------------------------------|
| Communication Interface | RS485 RS232 CAN |
| Monitor Mode | Wi-Fi 4G (optional) RS485 |

General Data

| Operating Temperature | |
|---|--|
| Humidity Limit (%) | up to 95 |
| Max. Elevation | 4,000m/13,123ft (10% derating at 2,000m/6,561ft) |
| Noise (dB) | <38 |
| IP Rating | IP65/NEMA 3R |
| Typology | Non-Isolated |
| Overvoltage Category | OVC (DC), OVC (AC) |
| Dimensions (W \times H \times D) Weight (lbs) | 19.5" x 35.4" x 10.2" 123 |
| Cooling | Intelligent Air Cooling |
| Max. Efficiency (%) | 96.5 |
| MPPT Efficiency (%) | >99.0 |
| Warranty | 15 years |
| Grid Regulation Certifications | IEEE1547.1 SRD V2.0 UL1741 CRD UL1741SA & SB UL1699B |
| Load Start Capability (LRA) | 92.66A |

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