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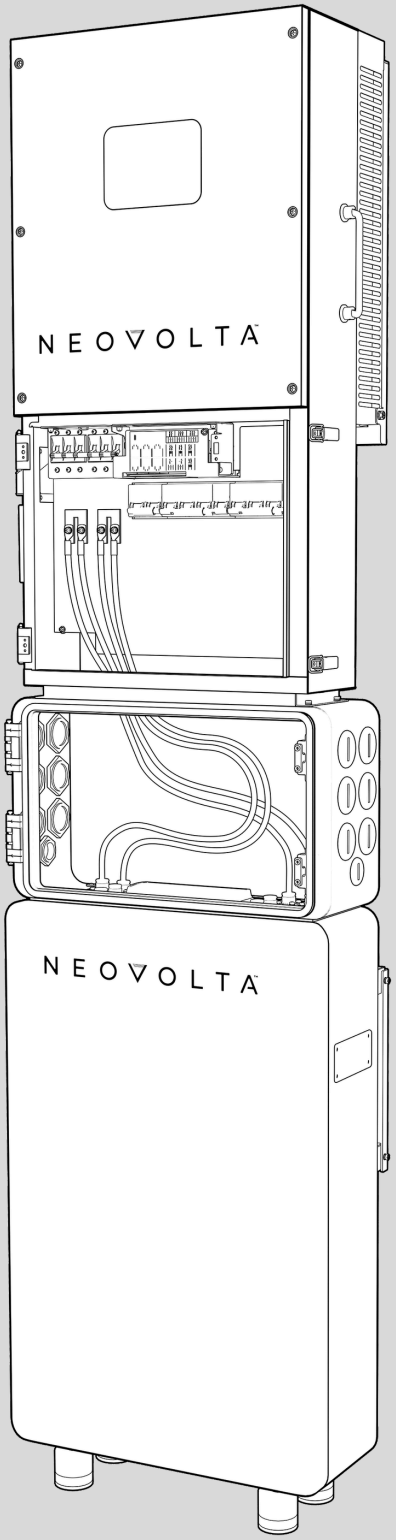

Hybrid Inverter & 16kWh Battery

NV16KAC & NVPlus 16

Designed and Engineered
in California since 2018

NV16KAC

24kW DC PV Input On Grid and Off Grid
16kW of AC Output in Backup Mode
200A Passthrough Design
100% Unbalanced Loads Capability
3rd Multi-Purpose AC Terminal

NVPlus-16

Cold Weather Capable
Integrated Wire Junction Box
Tool-less quick-connects
8000+ cycles

For support scan here

800.364.5464
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NVPlus-16

Battery Information

Battery Chemistry	LiFePO4
Cell Capacity (Ah)	314
Nominal Energy (kWh)	16
Output Power (kW)	9.73
Nominal Voltage (V)	51.2
Voltage Range (V)	43.2 ~ 59.2
Max. Charging Voltage (V)	58.4
Max Charging / Discharging Current (A)	190
Max. Operation Current (A)	200
Primary Overcurrent Protection (A)	210 @ 5S
Secondary Overcurrent Protection (A)	240 @ 3S
Cycle Life	8000 Cycles

Environment

Operating Temperature (°F / °C)	Charge: 32°F to 122°F / 0°C to 50°C Discharge: -4°F to 122°F/ -20°C to 50°C

General Information

Cooling Method	Natural Cooling
Heating Power (W)	300
Heating Start Temperature (°F / °C)	41°F / 5°C
Communication	RS485 | CAN | RS232
Battery Compliances	UN38.3, UL9540 3rd Edition, UL9540A, UL1973
IP Rating / NEMA	IP65 / Type 3R
Warranty	15 Years
Dimensions - W x D x H (in / mm)	22" × 8.3" × 48.3" / 560mm × 210mm × 1225mm
Weight (lbs / kg)	337.31 lbs / 153 kg
Max. Altitude	4000 m / 13,123 ft

NV16KAC

Inverter Input Data

Max. PV Input Power (W)	24,000
Max. PV Input Voltage (Voc)*	500*
Startup Voltage (Vmp)	120
MPPT Voltage Range (V)	120 ~ 430
Max. Input Current (A) @ MPPT	20/20/20/20
Max. Input Short-Circuit Current (A) @ MPPT*	25A/25A/25A/25A*
MPPT | Strings per MPPT*	4 | 1+1+1+1 (2 | 2+2)*
Battery Voltage Range (V)	40-58
Nominal Voltage (V)	48
Max. Charging / Discharging Current (A)*	260/280*

AC Output

Nominal AC voltage (L-N/L1-L2)	(110-120)/(220-240V) Split Phase, 240V single phase
Nominal AC Output (W)	16,000
Max. Apparent power output to grid (VA)	17,600
Nominal AC Output (A)	66.7
Max. Continuous AC Passthrough (A)	200
Max. AC Output Current (A)	73.3
Max. apparent output power with battery only	13.2kVA - 100%
Surge Capacity	LRA:167A (20kW@10s / 14.3kW@30s / 13.6W@60s)
Power Factor Settings Range	0.8 leading - 0.8 lagging
Nominal Output Frequency | Frequency Range (Hz)	60 | 55-65

*Reference Technical Notes for additional information

Environment

Operating Temperature (°F / °C)	-13°F to 140°F / -25°C to 60°C

AC Output

Cooling Method	Fan Cooling
Max. Efficiency (%)	96.50%
MPPT Efficiency (%)	>99.0%
Communication	CAN | RS485 | WiFi | 4G (optional)
GEN/ Multifunction Port	Available for Generators @120/240V <= 90A, AC Coupled Solar 16kW, and Load Shed 120/240V <= 90A
Inverter Compliances	UL1741 | UL1741SA&SB all options | UL1699B | FCC part 15 class B
Grid Connection Standards	CSA -C22.2 NO.107.1-01 | RSD(NEC690.5,11,12) IEEE 1547 | IEEE 2030.5 | HECO Rule 14H | CA Rule 21 Phase I,II,III,CEC | CSIP | SRD2.0 | OGPe |NOM | California Prop65
IP Rating / Nema	IP65 / NEMA 3R
Warranty	15 Years
Dimensions W x H x D (in/mm)	19.5" x 35.4" x 10.2" / 495mm x 900mm x 260 mm
Weight (lbs/ kg)	123 lbs / 56kg
Max. Altitude	4,000 m/13,123 ft (10% derating at 2,000 m /6,561 ft)

Max Configurations

One NV16KAC inverter with 3 NVPlus-16 batteries