

NEOVOLTA™



# Hybrid Inverter

NV16KAC

Designed and Engineered in  
California since 2018

**24kW DC PV Input**

**On Grid and Off Grid**

**16kW of AC Output in Backup  
Mode**

**Ease of Installation: 200A Pass  
Trough Design**

**100% Unbalanced Loads  
Capability**

**3rd Multi-Purpose AC Terminal**



800.364.5464

NEOVOLTA.COM

**PV String Input Data**

Max. PV Input Power* (W)	24,000
Max. PV Input Voltage (Voc)	500
Startup Voltage (Vmp)	120
MPPT Voltage Range (Vmp)	120-430
Rated PV Input Voltage	370
Max. Input Current (A) @ MPPT	20/20/20/20 (self-limiting)
Max. Input Short-Circuit Current (A) @ MPPT	25A/25A/25A/25A
MPPT   Strings per MPPT	4   1+1+1+1

**AC Input/Output Data**

Rated AC Input/Output (W)	16,000
Max. AC Input/Output (VA)	17,600
Rated AC Input/Output (A)	66.7
Max. AC Input/Output (A)	73.3
Max. Continuous AC Passthrough (grid to load) (A)	200
Peak Power Off-Grid & Surge Capacity (VA)	13,200 / 100%, 30s / 120%, 10s / 180%, 0.1s
Power Factor Adjustment Range	0.8leading - 0.8lagging
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	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)	280
Max. Discharging Current (A)	280
Charging Strategy for Li-ion Battery	Self-Adoption BMS
Number of Battery Input	2 x positive inputs, 2 x negative inputs

**Equipment**

Integrated Protection	Ground detection, Arc fault protection, Island protection, Insulation resistor detection, Residual current monitoring unit, Output over current protection, Back-up output short protection, Output over voltage protection, Output under voltage protection
Surge Protection	Type II (DC), TYPE II (AC)
Communication Interface	RS485   CAN
Monitor Mode	RS485   WiFi   4G (optional)

**General Data**

Operating Temperature	-13F - 140F
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
Dimensions (W x H x D)   Weight (lbs)	19.5" x 35.4" x 10.2"   117 (123 with breaker)
Cooling	Fan Cooling
Max. Efficiency (%)	96.5
MPPT Efficiency (%)	>99.0
Warranty	15 years
Grid Regulation   Certifications	UL1741   UL1741SA&SB all options   UL1699B   FCC part 15 class B 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   OGP e   NOM   California Prop65