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 Through Design

100% Unbalanced Loads Capability

3rd Multi-Purpose AC Terminal







$N E O \nabla O L T A^{T}$

NV16KAC

	INVIORAC
PV Input Data	
1ax. PV Input Power (W)	24,000
lax. PV Input Voltage (Voc)*	500*
artup Voltage (Vmp)	120
PPT Voltage Range (V)	120-430
ax. Input Current (A) @ MPPT	20/20/20
ax. Input Short-Circuit Current (A) @ MPPT*	25A/25A/25A*
PPT Strings per MPPT*	4 1+1+1+1 (2 2+2)*
attery Input Data (DC)	
attery Type (Compatible)	 Lithium Iron Phosphate (LiFePO4)
attery Voltage Range (V)	40-58
ominal Voltage (V)	48
ax. Charging / Discharging Current (A)*	260/280*
harging Strategy for Li-ion Battery	BMS Autodetect
umber of Battery Input	2 x positive, 2 x negative
C Output (on-grid)	
ominal AC voltage (L-N/L1-L2)	(110-120)/(220-240V) Split Phase, 240V single phase
ominal AC Output (W)	16,000
ax. Apparent power output to grid (VA)	17,600
ominal AC Output (A)	66.7
ax. Continuous AC Passthrough (A)	200
ax. apparent output power to grid(kVA)	16
otal Current Harmonic Distortion (THDi)	<3% (of nominal power)
rid Connection	2L + N + PE
C Output (back-up)	
ax. apparent output power with battery only	y 13.2kVA - 100%
ax output power with PV (W)	16,000
utput THDU	<2%
urge Capacity	LRA:167A (20kW@10s / 14.3kW@30s / 13.6W@60s)
<u> </u>	
ower Factor Settings Range	0.8 leading - 0.8 lagging
ominal Output Voltage Voltage Range (V)	120/240; 120/208@3-Phase
ominal Output Frequency Frequency Rangen nvironment	e (Hz) 60 55-65
perating Temperature F/C	-13°F - 140°F / -25°C - 60°C
	-13°F - 140°F / -25°C - 60°C <=95%
umidity Limit (%)	
lax. Elevation	4,000m/13,123ft (10% derating at 2,000m/6,561ft)
oise (dB)	57dB
Rating / Nema	IP65/NEMA 3R
ooling Method	Fan Cooling
Communication	
MS Communication	CAN
ommunication	RS485 WiFi 4G (optional)
General	<u></u>
EN Port	Available for Generators @120/240V <= 90A, AC Coupled Solar 16kW, and Load Shed 120/240V <= 90A
ntegrated Protection	GFC detection, Arc fault protection, PV reverse polarity protection, Island protection, Insulation PV test, Leakage current protection, AC output short circu
	and over current protection, AC output over/under-voltage protection
- · ··	Type II (DC), TYPE II (AC)
<u> </u>	96.5%
	2.50.70
ax. Efficiency (%)	>99.0%
ax. Efficiency (%) PPT Efficiency (%)	
ax. Efficiency (%) PPT Efficiency (%) /arranty	>99.0%
ax. Efficiency (%) PPT Efficiency (%) 'arranty imensions (W x H x D) in/mm	>99.0% 15 Years
urge Protection Max. Efficiency (%) MPPT Efficiency (%) Varranty Dimensions (W x H x D) in/mm Veight lbs/ kg afety Certifications	>99.0% 15 Years 19.5"x 35.4"x 10.2" / (495mm x 900mm x 260 mm) 123 lbs / 56kg UL1741 UL1741SA&SB all options UL1699B FCC part 15 class B
Max. Efficiency (%) MPPT Efficiency (%) Varranty Vimensions (W x H x D) in/mm Veight lbs/ kg	>99.0% 15 Years 19.5"x 35.4"x 10.2" / (495mm x 900mm x 260 mm) 123 lbs / 56kg

^{*}Reference Technical Notes for additional information