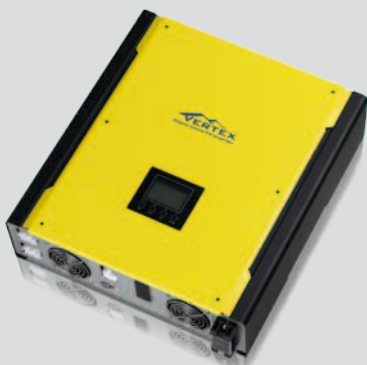


# Vertex Off-Grid Inverter



- DSP plus microprocessor redundant controller guarantee highest reliability
- Pure sine wave output
- Multiple power sources: Solar power, AC main, 48V DC battery
- Built-in MPPT tracker
- Isolation design between inverter and battery for safety guarantee
- Smart LCD display electricity generated, recorded up to 15 years
- Provides multiple communication ports for remote monitoring with software
- Standard RS-232/USB ports and optional Modbus, SNMP, and AS400 dry contact are available
- User-adjustable charging current up to 25A
- High efficiency: Solar panel to AC output peak efficiency 95.5%
- High efficiency: Battery to AC output peak efficiency 92%

## Vertex 2KW/3KW Off-Grid Inverter Selection Guide

MODEL	Vertex 2KW		Vertex 3KW	
RATED POWER	2000 W		3000 W	
PV INPUT (DC)				
Maximum DC Voltage	350 VDC		500 VDC	
Work Voltage Range	100 VDC ~ 350 VDC		100 VDC ~ 500 VDC	
Full Load MPP Voltage Range	150 ~ 320 VDC		250 VDC ~ 450 VDC	
Maximum Input Current	15 A		13 A	
AC INPUT				
Nominal AC Voltage	101/110 VAC	120/127 VAC	208/220 VAC	230/240 VAC
Acceptable Voltage Range	85 - 130 VAC	85 -160 VAC	175 - 265 VAC	175 - 280 VAC
Acceptable Frequency Range	57.5 ~ 62.5 Hz		47.5 ~ 52.2 Hz	
Maximum Input Current	31 A		20 A	
BATTERY MODE OUTPUT (AC)				
Output Voltage	101/110 VAC	120/127 VAC	208/220 VAC	230/240 VAC
Output Frequency	50 Hz / 60 Hz (Auto sensing)			
Output Waveform	Pure Sinewave			
THDv	<3% @ Linear Load <6% @ Non-linear Load			
Efficiency (DC to AC)	90%		92%	
Overload Capability	> 110%: 1 min; > 150%: 30sec.; >200%: immediately			
BATTERY & CHARGER				
Nominal DC Voltage	48 VDC			
Maximum Charging Current	25 A			
PHYSICAL				
Dimension, D X W X H (mm)	420 x 415 x 170			
Net Weight (kgs)	15.5			
INTERACE				
Communication Port	RS-232/USB			
Intelligent Slot	Optional SNMP card, Modbus card, and AS-400 card available			
ENVIRONMENT				
Humidity	0 ~ 90% RH (No condensing)			
Operating Temperature	0 to 40°C			
Altitude	0 ~ 1000 m*			

\* Power derating 1% every 100 m when altitude is over 1000m  
Product specifications are subject to change without further notice