

# Axpert King II Off-Grid Inverter



- Zero (0ms) transfer time to protect mission-critical loads such as servers and ATMs
- High PV input voltage range
- Removable LCD control module with multiple communications
- Selectable high power charging current
- Built-in Wi-Fi for mobile monitoring (App is available)
- Configurable AC/Solar input priority via LCD setting
- Reserved communication port for BMS (RS485 or CAN-BUS)
- Parallel operation up to 9 units

## Axpert King II Off-Grid Inverter Selection Guide

MODEL	Axpert KING II-5000-48	Axpert KING II-6000-48
<b>RATED POWER</b>	5000VA/5000W	6000VA/6000W
<b>PARALLEL CAPABILITY</b>	Up to 9 units	
<b>GRID INPUT</b>		
Voltage	230 VAC	
Voltage Range	110-280 VAC	
Frequency Range	50 Hz/60 Hz (Auto sensing) ± 4Hz	
Power Factor	≥ 0.98 @ Nominal Voltage (100% Load)	
THDi	≤ 10%	
<b>LOAD OUTPUT</b>		
AC Voltage Regulation (Line&Batt. Mode)	230VAC ± 5%	
Frequency Range (Synchronized Range)	46~54 Hz or 56~64 Hz	
Frequency Range (Batt. Mode)	50 Hz ± 0.1 Hz or 60Hz ± 0.1 Hz	
Harmonic Distortion	≤ 3 % THD (Linear Load); ≤ 5 % THD (Non-linear Load)	
Transfer Time	AC Mode to Batt. Mode	0 ms
	Inverter to Bypass	4 ms (Typical)
Waveform	Pure sine wave	
<b>EFFICIENCY</b>		
Line Mode	94%	
ECO Mode	98%	
Battery Mode	92%	
<b>BATTERY</b>		
Battery Voltage	40~66 VDC	
Floating Charge Voltage	54 VDC	
Overcharge Protection	66 VDC	
<b>SOLAR INPUT</b>		
Solar Charger type	MPPT	
Maximum PV Array Power	6000 W	6000 W
MPPT Range @ Operating Voltage	120 ~ 430 VDC	120 ~ 430 VDC
Maximum PV Array Open Circuit Voltage	500 VDC	500 VDC
Maximum Solar Charge Current	100A	120A
Maximum AC Charge Current	100A	120A
<b>PHYSICAL</b>		
Dimension, D x W x H (mm)	140 x 295 x 468	
Net Weight (kgs)	12	
Communication Interface	RS232, USB, DRY CONTACT, WI-FI, RS485	
<b>ENVIRONMENT</b>		
Humidity	5% to 95% Relative Humidity(Non-condensing)	
Operating Temperature	-10°C to 50°C	
Storage Temperature	-15°C to 60°C	

Product specifications are subject to change without further notice.