

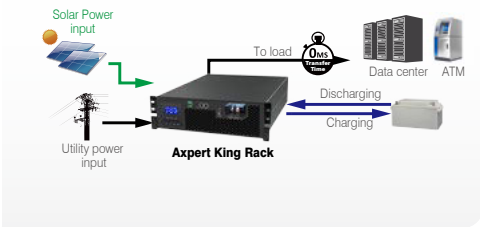
# Axpert King Rack Off-Grid Inverter



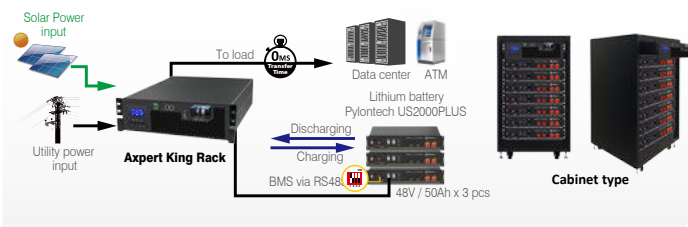
- Zero (0ms) transfer time to protect mission-critical loads such as servers and ATMs
- Reserved communication port for BMS (RS485, CAN-BUS or RS232)
- Configurable AC/PV output usage timer and prioritization
- Pure sine wave solar inverter
- Selectable high power charging current
- Wide DC input range
- Compatible to mains voltage or generator power
- Auto restart while AC is recovering
- Overload and short circuit protection
- Smart battery charger design for optimized battery performance
- Cold start function
- Optional parallel operation up to 9 units

## System Diagram

### Operation with AGM Battery



### Operation with Lithium Battery



## Axpert King Rack Off-Grid Inverter Selection Guide

MODEL	Axpert King Rack 3K-24V	Axpert King Rack 3K-48V	Axpert King Rack 5K-48V
Rated Power	3000VA/3000W		5000VA/5000W
PARALLEL CAPABILITY	Up to 9 units		
<b>INPUT</b>			
Voltage	230 VAC		
Voltage Range	110-280 VAC		
Frequency Range	50 Hz/60 Hz (Auto sensing)		
<b>OUTPUT</b>			
AC Voltage Regulation	230 VAC ± 5%		
Output THDv	≤ 3% for Linear load , ≤ 8 % for non-linear load		
Surger Power	6000VA for 5 sec		10000VA for 5 sec
Efficiency (Peak)	93 % at Line Mode, 90% at Battery Mode		
Transfer Time	0 ms		
Waveform	Pure sine wave		
<b>BATTERY</b>			
Battery Voltage	24 VDC	48 VDC	48 VDC
Floating Charge Voltage	27 VDC	54 VDC	54 VDC
Overcharge Protection	33 VDC	66 VDC	66 VDC
<b>SOLAR CHARGER &amp; AC CHARGER</b>			
Solar Charger type	MPPT		
Maximum PV Array Open Circuit Voltage	145 VDC		
Maximum PV Array Power	1500 W	4000 W	4000 W
MPPT Range @ Operating Voltage	30 ~ 115 VDC	60 ~ 115 VDC	60 ~ 115 VDC
Maximum Solar Charge Current	60A	80A	80A
Maximum AC Charge Current	60A		
Maximum Charge Current	120A	140A	140A
<b>PHYSICAL</b>			
Dimension, D x W x H (mm)	366.3 x 438 x 130.8		
Net Weight (kgs)	14.5		15.0
Communication Interface	USB/RS232/RS485/Dry-contact		
<b>OPERATING 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