

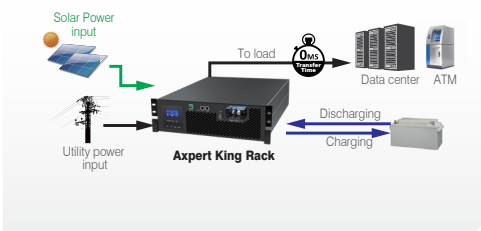
Axpert King Rack Off-Grid Inverter



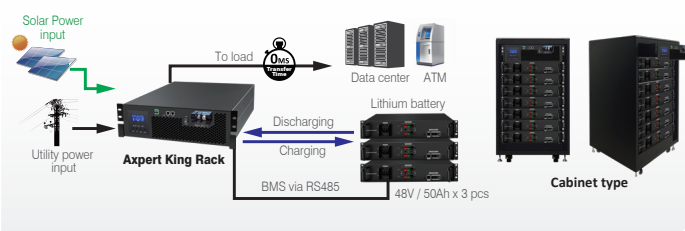
- Zero (0ms) transfer time to protect mission-critical loads such as servers and ATMs
- Reserved communication port for BMS (RS485, CAN-BUS or RS232)
- Configurable AC/PV output usage timer and prioritization
- Pure sine wave solar inverter
- Selectable high power charging current
- Wide DC input range
- 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		
INPUT			
Voltage	230 VAC		
Voltage Range	110-280 VAC		
Frequency Range	50 Hz/60 Hz (Auto sensing)		
OUTPUT			
AC Voltage Regulation	230 VAC \pm 5%		
Output THDv	\leq 3% for Linear load, \leq 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		
BATTERY			
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
SOLAR CHARGER & AC CHARGER			
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
PHYSICAL			
Dimension, D x W x H (mm)	466.3 x 438 x 130.8		
Net Weight (kgs)	14.5		15.0
Communication Interface	USB/RS232/RS485/Dry-contact/Wi-Fi		
OPERATING ENVIRONMENT			
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