

Axpert King Rack Off-Grid Inverter



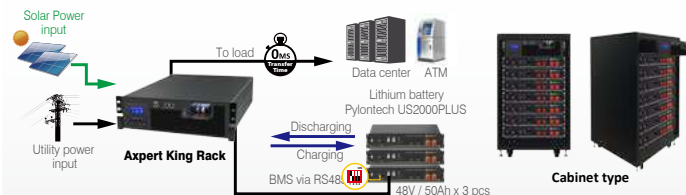
- Zero (0ms) transfer time to protect mission-critical loads such as servers and ATMs
- Reserved communication port for BMS (RS485, CAN-BUS or RS232)
- Configurable AC/PV output usage timer and prioritization
- Pure sine wave solar inverter
- Selectable high power charging current
- Wide DC input range
- 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	
Maxmum 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)	366.3 x 438 x 130.8			
Net Weight (kgs)	14.5			15.0
Communication Interface	USB/RS232/RS485/Bluetooth/Dry-contact			
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