

# Axpert King Rack Off-Grid Inverter

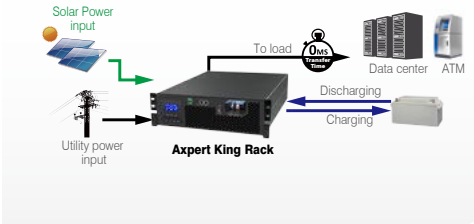


- Zero (0ms) transfer time to protect mission-critical loads such as servers and ATMs
- Reserved communication port for BMS (RS485, CAN-BUS or RS232)
- Configurable AC/PV output usage timer and prioritization
- Pure sine wave solar inverter
- Selectable high power charging current
- Wide DC input range
- 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

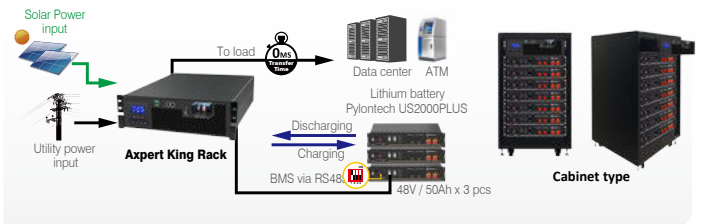
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## System Diagram

### 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)             | 466.3 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