



Axpert King IP52 datasheet



• Zero transfer time

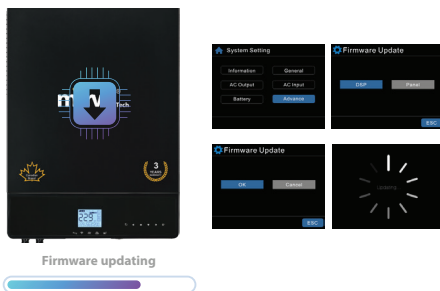
Designed for mission-critical loads with 0 ms transfer time. In the event of a grid abnormality or outage, the system instantly switches to battery backup, ensuring uninterrupted operation of your servers and ATMs to prevent any data loss or process interruption.

• Highly efficient thermal design

A well-designed ventilation ensures stable operation, enhances efficiency, reduces noise level, and extends product lifespan.

• Exclusive live firmware update (LFU) function embedded for seamless updates

Enables uninterrupted online updates, ensuring continuous and stable output. Allows users to update the program online smoothly without worrying about interrupted output.



• Ultra-Low No-Load consumption

Cuts no-load current by 50%, lowering energy loss to under 1A for improved efficiency.

• Manage your system performance effortlessly, anytime and anywhere

Easily set up initial configurations and scenarios with an integrated Wi-Fi design. Monitor performance on the APP with a visualized interface for daily, monthly, or annual data.



Operation Panel



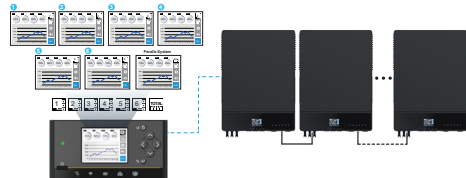
• User-friendly LCD HMI with touch-button navigation

An intuitive HMI operation panel featuring a touchscreen and sensitive buttons for seamless data acquisition, and real-time visualization.



• Central monitoring design for wall-mounted parallel systems with an optional remote panel

Provides an easy-to-use interface for real-time monitoring, improving visibility in parallel installations, and ensuring a smoother setup with a remote panel. Users can switch between data from the current inverter or all parallel inverters, view daily, weekly, monthly, or yearly data, and check detailed PV, battery, and grid information.



• Dual outputs for smart load management

There are two outputs available. The second output can be scheduled on/off, setting cut-off voltage or SOC and discharging time via LCD setting. It facilitates users smart load control.

• Super high PV input capacity at 60A – ready for modern solar panels

With a maximum PV input current of 60 A, the Axpert King IP52 meets the growing market demand for solar panels with increased Imp, ensuring seamless integration and optimal performance.

• Parallel-ready to expand up to 12 units

The new generation DSP offers a 50% increase in performance for more flexibility to extend the performance requirements. The high efficiency of the Axpert King IP52 allows to expand up to 12 units for increased capacity.

• Anti-Dust & Anti-Moisture coating for long-lasting reliability

A protective adhesive layer shields all electronic components from dust & moisture, enhancing durability and ensuring consistent performance over time.

Apert King IP52 Off-Grid Inverter Selection Guide

MODEL		Apert King IP52 8KW	Apert King IP52 10KW
Rated Power		8000VA/8000W	10000VA/10000W
GRID INPUT			
Voltage		230 VAC	
Selectable Voltage Range		170-280 VAC (For Personal Computers); 90-280 VAC (For Home Appliances)	
Frequency Range		50 Hz/60 Hz (Auto sensing) ± 4Hz	
Power Factor		≥ 0.98 @ Nominal Voltage (100% Load)	
THDi		≤ 10%	
OUTPUT			
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/60 Hz ± 0.1Hz	
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	
EFFICIENCY			
Line Mode		94%	
ECO Mode		98%	
Battery Mode		93%	
BATTERY			
Battery Voltage		48 VDC	
Floating Charge Voltage		54 VDC	
Overcharge Protection		63 VDC	
SOLAR CHARGER & AC CHARGER			
Solar Charger Type		MPPT	
Maximum PV Array Power		12000 W	15000 W
MPPT Range @ Operating Voltage		60 ~ 450 VDC	
Maximum PV Array Open Circuit Voltage		500 VDC	
Maximum PV Input Current		30A × 2 (Max. 45A)	40A/30A (Max. 60A)
Maxmum Solar Charge Current		120A	150A
Maximum AC Charge Current		120A	150A
PHYSICAL			
Dimension, D x W x H (mm)		120 x 420 x 582	
Net Weight (kgs)		17	18
Communication Interface		USB/RS232/RS485/WiFi/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	
Ingress Protection		IP 52	

Product specifications are subject to change without further notice.