

Core Integrated Hardware:

- 5kVA / 5kW Pure Sine Wave Inverter. incl. 80A MPPT Solar Charge Controller.
- 5.2kWh LiFePO4 Battery.
- Integrated distribution board.

Other features:

- Serial (RS485) communication
- Pre-configured for UPS applications.
- Solar-configurable via inverter UI.
- 5 Year battery warranty included.



COMPACT POWER STATION	
Dimensions (W x H x D)	69 x 23 x 64cm (main unit) 52 x 38 x 57cm (batteries)
Weight (Total)	38kg (main unit) 56kg (batteries)

INVERTER SPECIFICS: AXPERT KING 5kVA

POWER	
Rated Power	5000VA / 5000W
INPUT	
Voltage	230 VAC
Selectable Voltage Range	110 ~ 280 VAC
Frequency Range	50Hz / 60Hz (auto-sensing)
OUTPUT	
AC Voltage Regulation (Battery Mode)	230 VAC ±5%
Surge Power	10 000 VA (max. 5 secs.)
Efficiency (Peak)	93% max. (line mode) 90% max. (battery mode)
Transfer Time	0ms
Waveform	Pure Sine Wave
SOLAR CHARGER & AC CHARGER	
Max. PV Array Voltage (Open circuit)	145 VDC
Max. PV Array Power	4000 W
MPP Range @ Operating Voltage	60 ~ 115 VDC
Max. Solar Charge Current	80 A
Max. AC Charge Current	60 A
Max. Charge Current (Total)	140 A
ENVIRONMENTAL	
Humidity	5% ~ 95% Relative Humidity (non-condensing)
Operating Temperature Range	0°C ~ 55°C
Storage Temperature Range	-15°C ~ 60°C

Product Features

- **Ultra-reliable Lithium Iron Phosphate Technology.**
- **High Performance:**
 - Power output = 5.2kW (continuous)
 - Fully rechargeable in 2 hours.
- **Robust & Durable:**
 - Can be discharged to 100% DoD.
 - Performance cycle life > 6000 cycles.
- **Inverter compatibility:**
 - Serial communication (CAN/RS485) compatible with leading inverter manufacturers.
 - Compatible via voltage-based setup with all other pure sine wave inverters.
- **5 year product warranty.**



Technical Specifications

GENERAL SPECIFICATIONS	
Battery Chemistry	Lithium Iron Phosphate (LiFePO4)
Nominal Voltage	51.2V
Ah Rating	100Ah @C3, 25°C
Installed Capacity @Vnom	5 120Wh
Internal Resistance	≤ 50mΩ @1kHz AC
Serial Communication	CAN & RS485
VOLTAGE	
Operating Voltage Range	40.0V ~ 57.6V
Bulk Voltage (max.)	57.6V ± 0.3V
Float Voltage (recommended)	54.4V ~ 55.2 V
Low-Voltage (min.)	40.0V
CURRENT	
Charge Current (max.)	50A continuous ≤ 30A recommended
Discharge Current (max.)	100A for 30 mins. ≤ 70A recommended
Self-discharge Rate	Residual capacity: ≤ 3% /month ≤ 15% /year Recover capacity: ≤ 1.5% /month ≤ 8% /year
ENVIRONMENTAL REQUIREMENTS	
Operating Temperature Range	@Charge: 0°C ~ +50°C @Discharge: -10°C ~ +50°C
Recommended Operating Environment	Temp. range: +15 ~ +35°C Humidity: 5 ~ 75%RH
Storage Environment (stored ≤ 1 month)	Temp. range: -20 ~ +60°C Humidity: 5 ~ 75%RH
Storage Environment (stored ≥ 3 months)	Temp. range: +10 ~ +45°C Humidity: 5 ~ 75%RH
PHYSICAL ATTRIBUTES	
Dimensions – Main enclosure	446mm x 435mm x 153mm (W x D x H) *
Dimensions – Front plate	481mm x 153mm (W x H)
Net Weight	46.0kg (unboxed, no accessories)

* Depth measurement excludes terminals & handles. Add minimum 40mm to make provision for these.