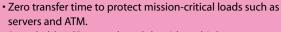
## **Axpert King Off-Grid Inverter**







- Detachable LCD control module with multiple communications
- Built-in Bluetooth for mobile monitoring (Android App is
- Supports USB On-the-Go function
- Reserved communication port for BMS (RS485, CAN-BUS or RS232)
- Configurable AC/PV output usage timer and prioritization
- Optional parallel operation up to 9 units

## **Axpert King Off-Grid Inverter Selection Guide**

NPUT	MODEL	Axpert King 3K	Axpert King 5K	
NPUT	Rated Power	3000VA/3000W	5000VA/5000W	
Voltage         230 VAC           Voltage Range         110-280 VAC           Frequency Range         50 Hz/60 Hz (Auto sensing)           OUTPUT         AC Voltage Regulation           AC Voltage Regulation         230 VAC ± 5%           Output THDV         <3% for linear load, <8% for non-linear load	Parallel Capability	Up to 9 units	Up to 9 units	
Voltage Range         110-280 VAC           Frequency Range         50 Hz/60 Hz (Auto sensing)           OUTPUT         C Voltage Regulation           AC Voltage Regulation         230 VAC ± 5%           Output THDV         <3% for inear load, <8% for non-linear load	INPUT			
### States	Voltage	230 VAC		
OUTPUT         AC Voltage Regulation         230 VAC ± 5%           Output THDV         <3% for linear load, <8% for non-linear load	Voltage Range	110-280 VAC		
AC Voltage Regulation  230 VAC ± 5%  Output THDV <a href="#"></a>	Frequency Range	50 Hz/60 Hz (Auto sensing)		
Output THDv         <3% for linear load, <8% for non-linear load	OUTPUT			
Surge 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           Floating Charge Voltage         27 VDC         54 VDC           Overcharge Protection         34 VDC         66 VDC           SOLAR CHARGER 8 AC CHARGER           Solar Charge Type         MPPT         MPPT           Maximum PV Array Open Circuit Voltage         145 VDC           Maximum PV Array Power         1500 W         4000 W           MPPR Range @ Operating Voltage         30 ~ 115 VDC         60 ~ 115 VDC           Maximum Solar Charge Current         60 A         80 A           Maximum AC Charge Current         60 A         80 A           Maximum Charge Current         60 A         60 A           Maximum Charge Current         120 A         140 A           PHYSICAL         Dimension, D x W x H (mm)         140 x 303 x 525           Net Weight (kgs)         13.0         13.5           Communication Interface         USB/RS232/RS485/Bluetooth/Dry-contact           EN	AC Voltage Regulation	230 VAC ± 5%		
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  54 VDC  Cvercharge Voltage  27 VDC  54 VDC  Cvercharge Protection  34 VDC  66 VDC  SOLAR CHARGER & AC CHARGER  Solar Charge Type  MPPT  MAXIMUM PV Array Open Circuit Voltage  1500 W  MAYON  MAXIMUM PV Array Power  1500 W  MAXIMUM PV Array Power  1500 W  MAXIMUM PV Array Open Circuit Voltage  30 ~ 115 VDC  60 ~ 115 VDC  MAXIMUM AC Charge Current  60 A  Maximum AC Charge Current  60 A  60 A  Maximum AC Charge Current  120 A  140 A  PHYSICAL  Dimension, D x W x H (mm)  140 x 303 x 525  Net Weight (kgs)  13.0  13.5  Communication Interface  USB/RS232/RS485/Bluetooth/Dry-contact  ENVIRONMENT  Humidity  5% to 95% Relative Humidity (Non-condensing)  Operating Temperature	Output THDv	<3% for linear load, <8% for non-linear load		
Transfer Time         0 ms           Waveform         Pure sine wave           BATTERY           Battery Voltage         24 VDC         48 VDC           Floating Charge Voltage         27 VDC         54 VDC           Overcharge Protection         34 VDC         66 VDC           SOLAR CHARGER & AC CHARGER           Solar Charger Type         MPPT         MPPT           Maximum PV Array Open Circuit Voltage         145 VDC           Maximum PV Array Power         1500 W         4000 W           MPP Range @ Operating Voltage         30 ~ 115 VDC         60~115 VDC           Maximum PV Array Power         60 A         80 A           Maximum Solar Charge Current         60 A         80 A           Maximum Solar Charge Current         60 A         60 A           Maximum Charge Current         120 A         140 A           PHYSICAL         120 A         140 A           Dimension, D x W x H (mm)         140 x 303 x 525           Net Weight (kgs)         13.0         13.5           Communication Interface         USB/RS232/RS485/Bluetooth/Dry-contact           ENVIRONMENT         140 x 30 x 525           Humidity         5% to 95% Relative Humidity (Non-condensing)	Surge Power	6000VA for 5 sec	10000VA for 5 sec	
Waveform         Pure sine wave           BATTERY           Battery Voltage         24 VDC         48 VDC           Floating Charge Voltage         27 VDC         54 VDC           Overcharge Protection         34 VDC         66 VDC           SOLAR CHARGER & AC CHARGER           Solar Charge Type         MPPT         MPPT           Maximum PV Array Open Circuit Voltage         145 VDC           Maximum PV Array Power         1500 W         4000 W           MPP Range @ Operating Voltage         30 ~ 115 VDC         60~115 VDC           Maximum Solar Charge Current         60 A         80 A           Maximum AC Charge Current         60 A         80 A           Maximum Charge Current         120 A         140 A           PHYSICAL           Dimension, D x W x H (mm)         140 x 303 x 525           Net Weight (kgs)         13.0         13.5           Communication Interface         USB/RS232/RS485/Bluetooth/Dry-contact           ENVIRONMENT         5% to 95% Relative Humidity (Non-condensing)           Operating Temperature         0°C to 55°C	Efficiency (Peak)	93 % at Line Mode, 90% at Battery Mode		
BATTERY           Battery Voltage         24 VDC         48 VDC           Floating Charge Voltage         27 VDC         54 VDC           Overcharge Protection         34 VDC         66 VDC           SOLAR CHARGER & AC CHARGER         Solar Charger Type         MPPT         MPPT           Maximum PV Array Open Circuit Voltage         145 VDC           Maximum PV Array Power         1500 W         4000 W           MPP Range @ Operating Voltage         30 ~ 115 VDC         60~115 VDC           Maxmum Solar Charge Current         60 A         80 A           Maximum AC Charge Current         60 A         60 A           Maximum Charge Current         120 A         140 A           PHYSICAL           Dimension, D x W x H (mm)         140 x 303 x 525           Net Weight (kgs)         13.0         13.5           Communication Interface         USB/RS232/RS485/Bluetooth/Dry-contact           ENVIRONMENT         5% to 95% Relative Humidity (Non-condensing)           Operating Temperature         0°C to 55°C	Transfer Time	0 ms		
Battery Voltage         24 VDC         48 VDC           Floating Charge Voltage         27 VDC         54 VDC           Overcharge Protection         34 VDC         66 VDC           SOLAR CHARGER & AC CHARGER           SOLAR CHARGER & AC CHARGER           MPPT         MPPT           Maximum PV Array Open Circuit Voltage         145 VDC           Maximum PV Array Power         1500 W         4000 W           MPP Range @ Operating Voltage         30 ~ 115 VDC         60~115 VDC           Maximum Solar Charge Current         60 A         80 A           Maximum AC Charge Current         60 A         60 A           Maximum Charge Current         120 A         140 A           PHYSICAL           Dimension, D x W x H (mm)         140 x 303 x 525           Net Weight (kgs)         13.0         13.5           Communication Interface         USB/RS232/RS485/Bluetooth/Dry-contact           ENVIRONMENT         5% to 95% Relative Humidity (Non-condensing)           Operating Temperature         0°C to 55°C	Waveform	Pure sine wave		
Floating Charge Voltage   27 VDC   54 VDC	BATTERY			
Overcharge Protection         34 VDC         66 VDC           SOLAR CHARGER & AC CHARGER           Solar Charger Type         MPPT         MPPT           Maximum PV Array Open Circuit Voltage         145 VDC           Maximum PV Array Power         1500 W         4000 W           MPP Range @ Operating Voltage         30 ~ 115 VDC         60~115 VDC           Maxmum Solar Charge Current         60 A         80 A           Maximum AC Charge Current         60 A         60 A           Maximum Charge Current         120 A         140 A           PHYSICAL           Dimension, D x W x H (mm)         140 x 303 x 525           Net Weight (kgs)         13.0         13.5           Communication Interface         USB/RS232/RS485/Bluetooth/Dry-contact           ENVIRONMENT         5% to 95% Relative Humidity (Non-condensing)           Operating Temperature         0°C to 55°C	Battery Voltage	24 VDC	48 VDC	
SOLAR CHARGER & AC CHARGER           Solar Charger Type         MPPT         MPPT           Maximum PV Array Open Circuit Voltage         145 VDC           Maximum PV Array Power         1500 W         4000 W           MPP Range @ Operating Voltage         30 ~ 115 VDC         60~115 VDC           Maxmum Solar Charge Current         60 A         80 A           Maximum AC Charge Current         60 A         60 A           Maximum Charge Current         120 A         140 A           PHYSICAL           Dimension, D x W x H (mm)         140 x 303 x 525           Net Weight (kgs)         13.0         13.5           Communication Interface         USB/RS232/RS485/Bluetooth/Dry-contact           ENVIRONMENT         5% to 95% Relative Humidity (Non-condensing)           Operating Temperature         0°C to 55°C	Floating Charge Voltage	27 VDC	54 VDC	
Solar Charger Type         MPPT         MPPT           Maximum PV Array Open Circuit Voltage         145 VDC           Maximum PV Array Power         1500 W         4000 W           MPP Range @ Operating Voltage         30 ~ 115 VDC         60~115 VDC           Maxmum Solar Charge Current         60 A         80 A           Maximum AC Charge Current         60 A         60 A           Maximum Charge Current         120 A         140 A           PHYSICAL           Dimension, D x W x H (mm)         140 x 303 x 525           Net Weight (kgs)         13.0         13.5           Communication Interface         USB/RS232/RS485/Bluetooth/Dry-contact           ENVIRONMENT         5% to 95% Relative Humidity (Non-condensing)           Operating Temperature         0°C to 55°C	Overcharge Protection	34 VDC	66 VDC	
Maximum PV Array Open Circuit Voltage         145 VDC           Maximum PV Array Power         1500 W         4000 W           MPP Range @ Operating Voltage         30 ~ 115 VDC         60~115 VDC           Maxmum Solar Charge Current         60 A         80 A           Maximum AC Charge Current         60 A         60 A           Maximum Charge Current         120 A         140 A           PHYSICAL           Dimension, D x W x H (mm)         140 x 303 x 525           Net Weight (kgs)         13.0         13.5           Communication Interface         USB/RS232/RS485/Bluetooth/Dry-contact           ENVIRONMENT         5% to 95% Relative Humidity (Non-condensing)           Operating Temperature         0°C to 55°C	SOLAR CHARGER & AC CHARGER			
Maximum PV Array Power         1500 W         4000 W           MPP Range @ Operating Voltage         30 ~ 115 VDC         60~115 VDC           Maxmum Solar Charge Current         60 A         80 A           Maximum AC Charge Current         60 A         60 A           Maximum Charge Current         120 A         140 A           PHYSICAL           Dimension, D x W x H (mm)         140 x 303 x 525           Net Weight (kgs)         13.0         13.5           Communication Interface         USB/RS232/RS485/Bluetooth/Dry-contact           ENVIRONMENT         5% to 95% Relative Humidity (Non-condensing)           Operating Temperature         0°C to 55°C	Solar Charger Type	MPPT	MPPT	
MPP Range @ Operating Voltage         30 ~ 115 VDC         60~115VDC           Maxmum Solar Charge Current         60 A         80 A           Maximum AC Charge Current         60 A         60 A           Maximum Charge Current         120 A         140 A           PHYSICAL           Dimension, D x W x H (mm)         140 x 303 x 525           Net Weight (kgs)         13.0         13.5           Communication Interface         USB/RS232/RS485/Bluetooth/Dry-contact           ENVIRONMENT         5% to 95% Relative Humidity (Non-condensing)           Operating Temperature         0°C to 55°C	Maximum PV Array Open Circuit Voltage	145 VDC		
Maxmum Solar Charge Current         60 A         80 A           Maximum AC Charge Current         60 A         60 A           Maximum Charge Current         120 A         140 A           PHYSICAL           Dimension, D x W x H (mm)         140 x 303 x 525           Net Weight (kgs)         13.0         13.5           Communication Interface         USB/RS232/RS485/Bluetooth/Dry-contact           ENVIRONMENT         5% to 95% Relative Humidity (Non-condensing)           Operating Temperature         0°C to 55°C	Maximum PV Array Power	1500 W	4000 W	
Maximum AC Charge Current         60 A         60 A           Maximum Charge Current         120 A         140 A           PHYSICAL           Dimension, D x W x H (mm)         140 x 303 x 525           Net Weight (kgs)         13.0         13.5           Communication Interface         USB/RS232/RS485/Bluetooth/Dry-contact           ENVIRONMENT         5% to 95% Relative Humidity (Non-condensing)           Operating Temperature         0°C to 55°C	MPP Range @ Operating Voltage	30 ~ 115 VDC	60~115VDC	
Maximum Charge Current         120 A         140 A           PHYSICAL           Dimension, D x W x H (mm)         140 x 303 x 525           Net Weight (kgs)         13.0         13.5           Communication Interface         USB/RS232/RS485/Bluetooth/Dry-contact           ENVIRONMENT         5% to 95% Relative Humidity (Non-condensing)           Operating Temperature         0°C to 55°C	Maxmum Solar Charge Current	60 A	80 A	
PHYSICAL           Dimension, D x W x H (mm)         140 x 303 x 525           Net Weight (kgs)         13.0         13.5           Communication Interface         USB/RS232/RS485/Bluetooth/Dry-contact           ENVIRONMENT         5% to 95% Relative Humidity (Non-condensing)           Operating Temperature         0°C to 55°C	Maximum AC Charge Current	60 A	60 A	
Dimension, D x W x H (mm)         140 x 303 x 525           Net Weight (kgs)         13.0         13.5           Communication Interface         USB/RS232/RS485/Bluetooth/Dry-contact           ENVIRONMENT         5% to 95% Relative Humidity (Non-condensing)           Operating Temperature         0°C to 55°C	Maximum Charge Current	120 A	140 A	
Net Weight (kgs)  13.0  13.5  Communication Interface  USB/RS232/RS485/Bluetooth/Dry-contact  ENVIRONMENT  Humidity  5% to 95% Relative Humidity (Non-condensing)  Operating Temperature  0°C to 55°C	PHYSICAL			
Communication Interface  USB/RS232/RS485/Bluetooth/Dry-contact  ENVIRONMENT  Humidity  5% to 95% Relative Humidity (Non-condensing)  Operating Temperature  0°C to 55°C	Dimension, D x W x H (mm)	140 x 303 x 525		
ENVIRONMENT  Humidity 5% to 95% Relative Humidity (Non-condensing)  Operating Temperature 0°C to 55°C	Net Weight (kgs)	13.0	13.5	
Humidity 5% to 95% Relative Humidity (Non-condensing)  Operating Temperature 0°C to 55°C	Communication Interface	USB/RS232/RS485/Bluetooth/Dry-contact		
Operating Temperature 0°C to 55°C	ENVIRONMENT			
	Humidity	5% to 95% Relative Humidity (Non-condensing)		
Storage Temperature -15°C to 60°C	Operating Temperature	0°C to 55°C		
	Storage Temperature	-15°C to 60°C		

Product specifications are subject to change without further notice.