





## Axpert Ultra-Max 8kW, PV10000

- · Dual outputs for smart load management
- Two independent AC power sources connected and switched automatically
- Built-in current transformer sensor to meet self-consumption application
- · Support external BTS (Battery Temperature Sensor) detection
- · Built-in power status lighting indicators
- · Built-in 2.8" colored LCD with slide operation
- · Built-in Wi-Fi for mobile monitoring and OTA firmware upgrade
- · Supports USB On-the-Go function
- Reserved communication port for BMS (RS485, CAN-BUS or RS232)
- Support optional GFCI, Rapid shutdown, AFCI detections
- · Parallel operation with 6 units

## HYBRID INVERTER

## Axpert Ultra Max 8kW, PV10000 Hybrid Inverter Selection Guide

RATED POWER         8000VA/8000W         11000VA/11000W           RATED POWER         YES, 6 units           INPUT           Voltage         230VAC           Selectable Voltage Range         170-280 VAC (For Personal Computers) 90-280 VAC (For Home Appliances)           Frequency Range         50 Hz/60 Hz (Auto sensing)           OUTPUT         AC Voltage Regulation (Batt. Mode)         230VAC ± 5%           Surge Power         16000VA         22000VA           Efficiency (Peak)         93%           Transfer Time         10 ms (For Personal Computers)           Waveform         Pure simple           Battery Voltage           Battery Voltage         48 VDC           Floating Charge Voltage         54 VDC           Overcharge Protection         63 VDC           SOLAR CHARGER & AC CHARGER           Solar Charger type         MPT           Maximum PV Array Open Circuit Voltage         90-45 VDC           Maximum PV Array Open Circuit Voltage         90-45 VDC           Maximum PV Input Current         150A         150A           Maximum AC Charge Current         150A         150A           Maximum AC Charge Current         150A         150A           Maximum AC Charge Curre	MODEL	Axpert Ultra Max 8K	Axpert Ultra Max 11K
NPUT	RATED POWER	8000VA/8000W	11000VA/11000W
Voltage   230VAC	RATED POWER	YES, 6 units	
\$\ \text{Prequency Range} \   \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	INPUT		
Pot-280 VAC (For Home Appliances)   Frequency Range	Voltage	230VAC	
OUTPUT           AC Voltage Regulation (Batt. Mode)         230VAC ± 5%           Surge Power         16000VA         22000VA           Efficiency (Peak)         93%           Transfer Time         10 ms (For Personal Computers) 20 ms (For Home Appliances)           Waveform         Pure sine wave           BATTERY         Pure sine wave           Battery Voltage         48 VDC           Floating Charge Voltage         54 VDC           Overcharge Protection         63 VDC           SOLAR CHARGER & AC CHARGER           Solar Charge type         MPPT           Maximum PV Array Power         10000W (5000W x 2)         12000W (6000W x 2)           MPPT Range @ Operating Voltage         90~450 VDC           Maximum PV Array Open Circuit Voltage         500 VDC           Maximum PV Input Current         27A x 2 (MAX 40A)           Maximum PV Input Current         150A         150A           Maximum Ac Charge Current         150A         150A           Maximum Ac Charge Current         150A         150A           Maximum Charge Current         150A         150A           Maximum Charge Current         150A         150A           Maximum Charge Current         150A         150A	Selectable Voltage Range		
AC Voltage Regulation (Batt. Mode)         230VAC ± 5%           Surge Power         16000VA         22000VA           Efficiency (Peak)         93%           Transfer Time         10 ms (For Personal Computers)           Waveform         Pure sine wave           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         10000W (5000W x 2)           Maximum PV Array Open Circuit Voltage         90~450 VDC           Maximum PV Array Open Circuit Voltage         500 VDC           Maximum PV Input Current         150A         150A           Maximum Solar Charge Current         150A         150A           Maximum Ac Charge Current         150A         150A           Maximum Charge Current         150A         150A	Frequency Range	50 Hz/60 Hz (Auto sensing)	
Surge Power         16000VA         22000VA           Efficiency (Peak)         93%           Transfer Time         10 ms (For Personal Computers) 20 ms (For Home Appliances)           Waveform         Pure sine wave           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         10000W (5000W x 2)         12000W (6000W x 2)           Maximum PV Array Open Circuit Voltage         90~450 VDC           Maximum PV Input Current         27A x 2 (MAX 40A)           Maximum Solar Charge Current         150A         150A           Maximum Charge Current         120A         150A           Maximum Charge Current         150A         150A           Maximum Charge Current         150A         150A           PHYSICAL         USB/RS23/RS48(WIFi/Dry-contact/BTS Support optical GFCI, Rapid shutdown, AFCI detection         External Current Sensor Port         Yes, built-in current transformer sensor           OPERATING ENVIRONMENT           Humidity         5% to 95% Relative Humidity (Non-condensing)           Operating Temperat	OUTPUT		
Efficiency (Peak)  93%  Transfer Time  10 ms (For Personal Computers) 20 ms (For Home Appliances)  Waveform  Pure sine wave  BATTERY  Battery Voltage  148 VDC  Floating Charge Voltage  Overcharge Protection  63 VDC  SOLAR CHARGER & AC CHARGER  Solar Charger type  MAPPT  Maximum PV Array Power  10000W (5000W x 2)  MPPT Range @ Operating Voltage  90~450 VDC  Maximum PV Array Open Circuit Voltage  Maximum AC Charge Current  150A  150A  Maximum Charge Current  120A  150A  Maximum Charge Current  150A  150A  PHYSICAL  Dimension, D x W x H (mm)  145 x 438 x 553.8  Net Weight (kgs)  18.4  Communication Interface  Support optical GFCI, Rapid shutdown, AFCI detection  External Current Sensor Port  Yes, bult-in current transformer sensor  OPERATING ENVIRONMENT  Humidity  5% to 95% Relative Humidity (Non-condensing)  Operating Temperature  -15°C to 60°C	AC Voltage Regulation (Batt. Mode)	230VAC ± 5%	
Transfer Time  10 ms (For Personal Computers) 20 ms (For Home Appliances)  Waveform  Pure sine wave  BATTERY  Battery Voltage  148 VDC  Floating Charge Voltage  54 VDC  Overcharge Protection  63 VDC  SOLAR CHARGER & AC CHARGER  Solar Charger type  MAPPT  Maximum PV Array Power  Maximum PV Array Power  Maximum PV Array Open Circuit Voltage  Maximum PV Input Current  150A  150A  Maximum PV Input Current  120A  150A  Maximum AC Charge Current  150A  150A  PHYSICAL  Dimension, D x W x H (mm)  145 x 438 x 553.8  Net Weight (kgs)  18.4  Communication Interface  External Current transformer sensor  OPERATING ENVIRONMENT  Humidity  5% to 95% Relative Humidity (Non-condensing)  Operating Temperature  -15°C to 60°C	Surge Power	16000VA	22000VA
Waveform	Efficiency (Peak)	9	3%
## Battery Voltage	Transfer Time		
### Battery Voltage	Waveform	Pure sine wave	
Floating Charge Voltage   54 VDC	BATTERY		
Overcharge Protection         63 VDC           SOLAR CHARGER & AC CHARGER           Solar Charger type         MPPT           Maximum PV Array Power         10000W (5000W x 2)         12000W (6000W x 2)           MPPT Range @ Operating Voltage         90~450 VDC           Maximum PV Array Open Circuit Voltage         500 VDC           Maximum PV Input Current         27A x 2 (MAX 40A)           Maximum Solar Charge Current         150A         150A           Maximum AC Charge Current         150A         150A           PHYSICAL         150A         150A           Dimension, D x W x H (mm)         145 x 438 x 553.8           Net Weight (kgs)         18.4           Communication Interface         USB/RS23/RS48/WIF/Dry-contact//BTS           Support optical GFCI, Rapid shutdown, AFCI detection           External Current Sensor Port         Yes, bult-in current transformer sensor           OPERATING ENVIRONMENT         10°C to 50°C           Humidity         5% to 95% Relative Humidity (Non-condensing)           Operating Temperature         -10°C to 50°C           Storage Temperature         -15°C to 60°C	Battery Voltage	48 VDC	
SOLAR CHARGER & AC CHARGER           Solar Charger type         MPPT           Maximum PV Array Power         10000W (5000W x 2)         12000W (6000W x 2)           MPPT Range @ Operating Voltage         90~450 VDC           Maximum PV Array Open Circuit Voltage         500 VDC           Maximum PV Input Current         27A x 2 (MAX 40A)           Maximum Solar Charge Current         150A           Maximum AC Charge Current         120A         150A           Maximum Charge Current         150A         150A           PHYSICAL         150A         150A           Dimension, D x W x H (mm)         145 x 438 x 553.8           Net Weight (kgs)         18.4           Communication Interface         USB/RS23/RS48/SWIF/(Dry-contact/BTS Support optical GFCI, Rapid shutdown, AFCI detection           External Current Sensor Port         Yes, bult-in current transformer sensor           OPERATING ENVIRONMENT           Humidity         5% to 95% Relative Humidity (Non-condensing)           Operating Temperature         -10°C to 50°C           Storage Temperature         -15°C to 60°C	Floating Charge Voltage	54 VDC	
Maximum PV Array Power   10000W (5000W x 2)   12000W (6000W x 2)	Overcharge Protection	63 VDC	
Maximum PV Array Power         10000W (5000W x 2)         12000W (6000W x 2)           MPPT Range @ Operating Voltage         90~450 VDC           Maximum PV Array Open Circuit Voltage         500 VDC           Maximum PV Input Current         27A x 2 (MAX 40A)           Maximum Sotar Charge Current         150A           Maximum AC Charge Current         120A         150A           Maximum Charge Current         150A         150A           PHYSICAL           Dimension, D x W x H (mm)         145 x 438 x 553.6           Net Weight (kgs)         18.4           Communication Interface         USB/RS23/RS48/S/WIF/IDry-contact/ETS           Support optical GFCI, Rapid shutdown, AFCI detection           External Current Sensor Port         Yes, built-in current transformer sensor           OPERATING ENVIRONMENT           Humidity         5% to 95% Relative Humidity (Non-condensing)           Operating Temperature         -10°C to 50°C           Storage Temperature         -15°C to 60°C	SOLAR CHARGER & AC CHARGER		
MPPT Range @ Operating Voltage  Maximum PV Array Open Circuit Voltage  Maximum PV Input Current  27A x 2 (MAX 40A)  Maximum Solar Charge Current  150A  150A  Maximum AC Charge Current  120A  150A  150A  Maximum Charge Current  150A  150A  150A  Maximum Charge Current  150A  150A  150A  PHYSICAL  Dimension, D x W x H (mm)  145 x 438 x 553.6  Net Weight (kgs)  18.4  Communication Interface  USB/RS232/RS485/WFI/Dry-contact/BTS Support optical GFCI. Rapid shutdown, AFCI detection  External Current Sensor Port  Yes, built-in current transformer sensor  OPERATING ENVIRONMENT  Humidity  5% to 95% Relative Humidity (Non-condensing)  Operating Temperature  -10°C to 50°C  Storage Temperature	Solar Charger type	МРРТ	
Maximum PV Array Open Circuit Voltage         50 ∨ DC           Maximum PV Input Current         27A x 2 (MAX 40A)           Maximum Solar Charge Current         150A         150A           Maximum AC Charge Current         120A         150A           Maximum Charge Current         150A         150A           PHYSICAL           Dimension, D x W x H (mm)         145 x 438 x 553.6           Net Weight (kgs)         18.4           Communication Interface         USB/RS232/RS45WHF/Dry-contact/BTS Support optical GFGI, Rapid shutdown, AFCI detection           External Current Sensor Port         Yes, built-in current transformer sensor           OPERATING ENVIRONMENT           Humidity         5% to 95% Relative Humidity (Non-condensing)           Operating Temperature         -10°C to 50°C           Storage Temperature         -15°C to 60°C	Maximum PV Array Power	10000W (5000W x 2)	12000W (6000W x 2)
Maximum PV Input Current         27A x 2 (MAX 40A)           Maximum Solar Charge Current         150A         150A           Maximum AC Charge Current         120A         150A           Maximum Charge Current         150A         150A           PHYSICAL           Dimension, D x W x H (mm)         145 x 438 x 553.6           Net Weight (kgs)         18.4           Communication Interface         Support optical GFCI, Rapid shutdown, AFCI detection           External Current Sensor Port         Yes, built-in current transformer sensor           OPERATING ENVIRONMENT           Humidity         5% to 95% Relative Humidity (Non-condensing)           Operating Temperature         -10°C to 50°C           Storage Temperature         -15°C to 60°C	MPPT Range @ Operating Voltage	90~450 VDC	
Maximum Solar Charge Current         150A         150A           Maximum AC Charge Current         120A         150A           Maximum Charge Current         150A         150A           PHYSICAL           Dimension, D x W x H (mm)         145 x 438 x 553.6           Net Weight (kgs)         18.4           Communication Interface         USB/RS232/RS485/WFI//Dry-contact/BTS Support optical GFGI. Rapid shutdown, AFCI detection           External Current Sensor Port         Yes, built-in current transformer sensor           OPERATING ENVIRONMENT           Humidity         5% to 95% Relative Humidity (Non-condensing)           Operating Temperature         -10°C to 50°C           Storage Temperature         -15°C to 60°C	Maximum PV Array Open Circuit Voltage	500 VDC	
Maximum AC Charge Current         120A         150A           Maximum Charge Current         150A         150A           PHYSICAL           Dimension, D x W x H (mm)         145 x 438 x 553.6           Net Weight (kgs)         18.4           Communication Interface         USB/RS23/RS485/WFI/Dry-contact/BTS support optical GFCI, Rapid shutdown, AFCI detection           External Current Sensor Port         Yes, built-in current transformer sensor           OPERATING ENVIRONMENT           Humidity         5% to 95% Relative Humidity (Non-condensing)           Operating Temperature         -10°C to 50°C           Storage Temperature         -15°C to 60°C	Maximum PV Input Current	27A x 2 (MAX 40A)	
Maximum Charge Current  150A  150A  PHYSICAL  Dimension, D x W x H (mm)  145 x 438 x 553.6  Net Weight (kgs)  18.4  Communication Interface  Support optical GFCI, Rapid shutdown, AFCI detection  External Current Sensor Port  Yes, built-in current transformer sensor  OPERATING ENVIRONMENT  Humidity  5% to 95% Relative Humidity (Non-condensing)  Operating Temperature  -10°C to 50°C  Storage Temperature	Maximum Solar Charge Current	150A	150A
PHYSICAL  Dimension, D x W x H (mm)  145 x 438 x 553.6  Net Weight (kgs)  18.4  Communication Interface  Support optical GFCI, Rapid shutdown, AFCI detection  External Current Sensor Port  Yes, built-in current transformer sensor  OPERATING ENVIRONMENT  Humidity  S% to 95% Relative Humidity (Non-condensing)  Operating Temperature  -10°C to 50°C  Storage Temperature	Maximum AC Charge Current	120A	150A
Dimension, D x W x H (mm)  145 x 438 x 553.6  Net Weight (kgs)  18.4  Communication Interface  Support optical GFCI, Rapid shutdown, AFCI detection  External Current Sensor Port  Yes, built-in current transformer sensor  OPERATING ENVIRONMENT  Humidity  S% to 95% Relative Humidity (Non-condensing)  Operating Temperature  -10°C to 50°C  Storage Temperature	Maximum Charge Current	150A	150A
Net Weight (kgs)  18.4  Communication Interface  USB/RS232/RS485/WIFI/Dry-contact/BTS Support optical GFCI, Rapid shutdown, AFCI detection  External Current Sensor Port  Yes, built-in current transformer sensor  OPERATING ENVIRONMENT  Humidity  5% to 95% Relative Humidity (Non-condensing)  Operating Temperature  -10°C to 50°C  Storage Temperature	PHYSICAL		
Communication Interface  USB/RS232/RS485/WIFI/Dry-contact/BTS Support optical GFCI, Rapid shutdown, AFCI detection  External Current Sensor Port  Yes, built-in current transformer sensor  OPERATING ENVIRONMENT  Humidity  5% to 95% Relative Humidity (Non-condensing)  Operating Temperature  -10°C to 50°C  Storage Temperature  -15°C to 60°C	Dimension, D x W x H (mm)	145 x 438 x 553.6	
External Current Sensor Port  Yes, built-in current transformer sensor  OPERATING ENVIRONMENT  Humidity  Share to 95% Relative Humidity (Non-condensing)  Operating Temperature  -10°C to 50°C  Storage Temperature	Net Weight (kgs)	18.4	
OPERATING ENVIRONMENT           Humidity         5% to 95% Relative Humidity (Non-condensing)           Operating Temperature         -10°C to 50°C           Storage Temperature         -15°C to 60°C	Communication Interface		
Humidity 5% to 95% Relative Humidity (Non-condensing)  Operating Temperature -10°C to 50°C  Storage Temperature -15°C to 60°C	External Current Sensor Port	Yes, built-in current transformer sensor	
Operating Temperature         -10°C to 50°C           Storage Temperature         -15°C to 60°C	OPERATING ENVIRONMENT		
Storage Temperature -15°C to 60°C	Humidity	5% to 95% Relative Humidity (Non-condensing)	
- 1	Operating Temperature	-10°C to 50°C	
STANDARD	Storage Temperature	-15°C to 60°C	
	STANDARD		
Compliance Safety CE	Compliance Safety		CE

Product specifications are subject to change without further notice.