

# AXPERT ULTRA TWIN

150A  
DUAL MPPT

## PV10000 PV12000

AXPERT ULTRA TWIN 8KW & 11KW  
AXPERT ULTRA TWIN - HYBRID



## KEY SALIENT FEATURES

- ✓ INTRODUCING ORIGINAL DESIGN AND ENGINEERING IN TAIWAN
- ✓ TWO INDEPENDENT AC POWER SOURCES CONNECTED AND SWITCHED AUTOMATICALLY
- ✓ MAXIMUM CHARGING CURRENT 150A
- ✓ SUPPORTS USB ON-THE-GO FUNCTION
- ✓ RESERVED COMMUNICATION PORT FOR BMS (RS485, CAN-BUS OR RS232)
- ✓ BUILT-IN FEED-IN GRID FUNCTION
- ✓ BUILT-IN 2.8" COLORED LCD WITH SLIDE OPERATION
- ✓ BUILT-IN POWER STATUS LIGHTING INDICATORS
- ✓ SUPPORT EXTERNAL BTS (BATTERY TEMPERATURE SENSOR) DETECTION
- ✓ BUILT-IN WIFI WITH APP FOR REMOTE MONITORING AND OTA FIRMWARE UPGRADE
- ✓ ADAPTABLE TO MAIN VOLTAGE / GENERATOR POWER
- ✓ CONFORMAL COATING TO PREVENT FROM DUST AND HUMIDITY
- ✓ DUAL AC OUTPUTS FOR SMART LOAD MANAGEMENT
- ✓ COMPATIBLE WITH ALL KINDS OF LITHIUM BATTERIES
- ✓ OVERLOAD & SHORT CIRCUIT PROTECTION
- ✓ SUPPORT OPTIONAL GFCI, RAPID SHUTDOWN, AFCI DETECTION
- ✓ BUILT-IN COMMUNICATION PORT FOR BMS
- ✓ BATTERY EQUALIZATION FUNCTION TO OPTIMIZE BATTERY PERFORMANCE AND EXTEND LIFECYCLE
- ✓ PARALLEL OPERATION WITH 6 UNITS

**ORIGINAL**  
DESIGN & ENGINEERING IN  
TAIWAN



BUILT-IN  
**WIFI MONITORING**



(iOS)



(Android)



AVAILABLE ON



MODEL	AXPERT Ultra - PV10000	AXPERT Ultra - PV12000
Rated Power	8000VA/8000W	11000VA/11000W
Parallel Capability	YES, 6 units	
<b>AC INPUT</b>		
Voltage	230 VAC	
Selectable Voltage Range	170 - 280 VAC (For Personal Computer)	
Frequency Range	90 - 280 VAC (For Home Appliances)	
<b>AC OUTPUT</b>		
AC Voltage Regulation(Batt. Mode)	230VAC $\pm$ 5%	
Surge Power	16000VA	22000VA
Efficiency (Peak)	93%	
Transfer Time	10ms (Personal Computer) ; 20 ms ( For Home Appliances)	
Waveform	Pure Sine Wave	
<b>BATTERY</b>		
Battery Voltage	48 VDC	
Floating Charge Voltage	54VDC	
Overcharge Protection	63VDC	
<b>SOLAR CHARGER &amp; AC CHARGER</b>		
Solar Charger Type	MPPT	
Maximum PV Array Power	10000 (5000W X 2)	12000W (6000W X 2)
MPPT Range @ Operation 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	120A	150A
Maximum Charge Current	150A	150A
<b>PHYSICAL</b>		
Dimension D x W x H (mm)	145 x 438 x 553.6	
Net Weight (Kgs)	18.4	
Communication Interface	USB/RS232/RS484/WiFi/Dry-Contact/BTS Support optional GFCI, Rapid Shutdown, AFCI detection	
External Current Sensor Port	Yes, built-in current transformer sensor	
<b>PHYSICAL</b>		
Humidity	5% to 95% Relative Humidity (Non-condensing)	
Operating Temperature	-10°C to 50°C	
Storage Temperature	-15°C to 60°C	
<b>STANDARD</b>		
Compliance Safety	CE	

Note: Product specifications are subject to change without further notice



MAX PV INPUT  
10000 / 12000



MAX CHARGING  
CURRENT 150A



MAX PV VOLTAGE  
500VDC



DUAL AC  
OUTPUT



MPPT RANGE  
60-450VDC



WORK WITH &  
WITHOUT BATTERIES



IP-21  
PROTECTION



COLORLED LCD WITH  
SLIDER OPERATION



COMMUNICATION  
PORT



PURE SINE WAVE  
INVERTER



POWER  
FACTOR 1.0



BUILT-IN  
WI-FI



BATTERY  
MANAGEMENT  
SYSTEM (BMS)



NET METERING  
(FEED INTO GRID)



ZERO  
EXPORT  
BUILT-IN



SMART & SAFE



ANTI DUST  
PROTECTION



SHORT CIRCUIT  
PROTECTION



PARALLEL UP  
TO 6 UNITS



USB PORT



DUAL AC  
INPUT



SMART LOAD  
MANAGEMENT



DUAL MPPT  
HIGH PV CAPACITY



POWER STATUS  
LED LIGHTING  
INDICATORS