







# ULTRA 5kw On-Grid HYBRID SOLAR INVERTER



**5kw-48V**

-  LCD Screen, IP20 Protection degree
-  Max. 10pcs parallel for on-grid and off-grid operation; Support multiple batteries parallel
-  DC couple and AC couple to retrofit existing solar system
-  Max. charging/discharging current of 110A
-  2 years warranty
-  Support storing energy from diesel generator

The new Ultra inverter comes with a high-power output of 5000W with a compact design. It is compatible with all types of lithium and Lead acid batteries. We can adjust low to high cut-off voltage with the adjustable charging current in this inverter. It has a huge MPPT of 8000W capacity with a high PV range (100~480V).

## Technical Data

Model	ULTRA 5kw-48V
<b>Efficiency</b>	
Max. Efficiency (PV to AC)	99.00%
Max. Efficiency (BAT to AC)	94.50%
<b>Battery Input Data</b>	
Battery Type	Lithium-ion,Lead-acid
Normal Battery Voltage Range (V)	51.2V/48V
Max. Charge Voltage	59V
<b>Input (PV)</b>	
Max. PV Input Power (W)	8000W
DC Input Voltage Range	100-480Vdc
MPPT Voltage Range (V)	100-385Vdc
Start-up Voltage (V)	120Vdc
Max. Solar Charge Current	110A
Max. Solar Input Current	13A+13A
MPPT Tracker	2
Max. MPPT Efficiency	>98%
<b>Output</b>	
Rated Power	5,000W
Parallel Capacity	Yes
Normal Output Voltage	230/240, Split Phase 220/110 Vac*
Normal Output Frequency	50/60Hz
Surge Power	10000VA
Switch Time	10ms
Wave form	Pure Sine Wave
<b>Grid</b>	
Normal Voltage	230Vac
AC Voltage Range	110-280Vac
Max. Charge Current	60A
Frequency Range	50/60(Auto Sensing)
<b>Protection</b>	
Integrated	DC Switch, Anti-islanding Protection, AC Over Current Protection, AC Over Voltage Protection, AC Over Voltage Protection, DC Reverse Protection, Insulation Detection, Leakage Current Protection, AFCI
Surge Arrester	DC Type II/AC Type II
<b>Certifications and Standards</b>	
Grid	UL1741SB, IEEE1547: 2018, HECO SRD 2.0
Safety/ EMC Standard	UL 1741/CSA C22.2/UL 1699B/ UL 1741/ CSA C22.2/UL 1699B
<b>General Data</b>	
Display	LED+LCD
Communication Interface	CAN/RS485/ Dry Connector
Wifi/GPRS	Yes
Relative Humidity	5~95% Relative Humidity (Non-Condensing)
Operating Temperature Range	0°C~50°C
Storage Temperature	-15°C~60°C
Weight (kg)	14 Kg
Dimensions (W*H*D)	330mm*504mm*135mm
Protection Degree	IP20
Installation Style	Wall bracket
Warranty	2 Years