

## The World's First Battery-less Off-Grid Solar Inverter for Air Conditioners





- For Inverter-Air-Conditioners (IAC), Requiring no Batteries
- Supports 9000 to 12000 Btu IAC
- Pure Sinewave AC Output
- Four DC Input Channels
- MPPT for Each Solar Panel
- Over Discharge Protection for 48V Lead-Acid Batteries
- Solar or Battery Auto-Detection
- High Efficiency and Long Life

Each CyboInverter (CI-Mini-1000Wx) can connect to 4 solar panels or a 48V battery, and produce up to 1250W, 220V, 60Hz AC to run Mini-Split IAC or Window IAC and other 220V loads. Installation is super easy.

Q: What is your special offer?

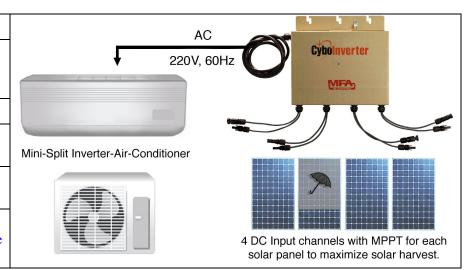
A: We enable you to run air conditioners with solar panels only. No battery is required.

Q: Really, no batteries? How?

A: Off-Grid CyboInverters can take power from solar panels directly.

Q: That is great. If needed, can I have batteries to run A/C at night?

A: Yes, You may use a 48V battery to connect to 2 input channels of the CyboInverter.



Product: CyboInverter - 4 Channel 1.25KW Off-Grid Solar Inverter for IAC CI-Mini-1000Wx Standalone Off-Grid Model for 115V-220V, 60Hz Mini-Splits

Never connect the Off-Grid Cybolnverter to the AC grid. Doing so will damage the unit and void the warranty. Check voltage and current specs of A/C Unit before attaching.

**Made in U.S.A.** 





## **Technical Data of CI-Mini-1000W**x (Rev 6.6 – Jan 2024)

DC Input (per Channel)	60/66 Cell Panel	72 Cell	Panel*	Bat	ttery**
Supported Input Power	250W – 400W	300W -	300W – 450W 48V, 50-3		50-300AH
Operating Input DC Voltage Range	18V – 60V	18V – 6	-60V 47V-6		- 60V
Peak Power Performance Range	30V - 60V	30V – 6	80V - 60V $48V - 60$		- 60V
Maximum Input DC Voltage / Current	60V / 11.5A	60V /	11.5A	.5A 60V / 11.5A	
Maximum Input Power	330W	330W		330W	,
Minimum Starting Voltage	20V	20V		47V	
Compatible Batteries	48V Lead-Acid Deep-Cycle AGM or Lithium-Ion Pack				
AC Output	Data				
Rated Output Power / Peak Output Power	960W / 1250W				
Startup Surge Power for 12 Seconds	1500W (Max Surge DC Power = 400W per Channel)				
Nominal Output Current (RMS)	4.36A (RMS – Root Mean Square)				
Nominal Output Voltage / Range	220V (155V – 242V, Single-Phase)				
Nominal Frequency / Range	60Hz (59.5Hz – 60.5Hz)				
Power Factor	>0.95				
Efficiency	Data				
Peak Efficiency / MPPT Tracking	96% (99%)				
Mechanical Data	SI		U.S.		
Ambient Temperature Range	-40°C to +65°C	-40°F to +149°F			
Internal Operating Temperature Range	-40°C to +88°C	C -40°F to +190°F		7	
Dimensions w/o mounting bracket (L x H x W)	32cm x 24cm x 5.8	n x 5.8cm 12.5" x		9.5" x 2.3"	
Weight	6.5 kg	6.5 kg 14.25 lbs			
Cooling / Enclosure	Natural Convection, No Fan / Potted				
DC Wire / AC Wire	1-2 Feet DC Wires / 4 Feet AC Wires (THHN), Copper				
Features and Compliance	Data				
Safety and EMC Compliance	UL1741 and IEEE1547 (E113426), FCC Part 15 Class A.				
Rapid Shutdown	Complies with NEC 2014/2017 690.12.				
DC Ground Fault Detector Interrupter (GFDI)	Built-In (MET)⊗				
Standard Warranty	3 Years (Extended Warranty Available)				
Enclosure Environmental Rating / Safety	Outdoor – NEMA 6 / Transformer Isolated Circuits				
Built-in Battery Over Discharge Protection	Low Voltage Disconnect (LVD) on Battery Channels.				

<sup>\*</sup>Do not use 72-cell solar panels in areas where temperature can get below -10 degrees F (-23 degrees C).

<sup>\*\*</sup>No batteries are required to run Mini-Split or Window IAC during the day when there is sufficient sunlight.