

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-1000Nx) can connect to 4 solar panels or a 48V battery, and produce up to 1250W, 120V, 60Hz AC to run Mini-Split IAC or Window IAC and other 120V loads. Installation is super easy.

Q: What is your special offer?

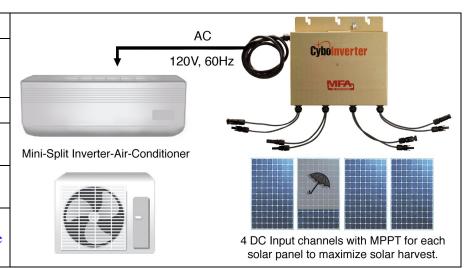
A: We enable you to run air conditioners with solar panels only. No battery is required.

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-1000Nx Standalone Off-Grid Model for 115V-120V, 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-1000Nx (Rev 6.6 – January 2024)

DC Input (per Channel)	60/66 Cell Panel	72 Cell Panel*	Battery**
Supported Input Power	250W – 400W	300W - 450W	48V, 50-300AH
Operating Input DC Voltage Range	18V – 60V	18V – 60V	47V – 60V
Peak Power Performance Range	30V - 60V	30V - 60V	48V - 60V
Maximum Input DC Voltage / Current	60V / 11.5A	60V / 11.5A	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)	8A (RMS – Root Mean Square)		
Nominal Output Voltage / Range	120V (90V – 132V, Single-Phase)		
Nominal Frequency / Range	60Hz (59.5Hz – 60.5Hz)		
Efficiency	Data		
Peak Efficiency / MPPT Tracking	96% (99%)		
Mechanical Data	SI	SI U.S.	
Ambient Temperature Range	-40°C to +65°C		
Internal Operating Temperature Range	-40°C to +88°C		
Dimensions w/o mounting bracket (L x H x W)	32cm x 24cm x 5.8cm 12.5" x 9		9.5" x 2.3"
Weight	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), CSA 107.1, 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.		

^{*}Do not use 72-cell solar panels in areas where temperature can get below -10 degrees F (-23 degrees C).

^{**}No batteries are required to run Mini-Split or Window IAC during the day when there is sufficient sunlight.