



# 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-1000Tx) can connect to 4 solar panels or a 48V battery, and produce up to 1150W, 230V, 50Hz AC to run Inverter-Air-Conditioners (IAC). Installation is super easy.


<p><i>Q: What is your special offer?</i></p>	<p>Mini-Split Inverter-Air-Conditioner</p> <p>4 DC Input channels with MPPT for each solar panel to maximize solar harvest.</p>
<p><i>A: We enable you to run air conditioners with solar panels only. No battery is required.</i></p>	
<p><i>Q: Really, no batteries? How?</i></p>	
<p><i>A: Off-Grid CyboInverters can take power from solar panels directly.</i></p>	
<p><i>Q: That is great. If needed, can I have batteries to run A/C at night?</i></p>	
<p><i>A: Yes, You may use a 48V battery to connect to 2 input channels of the CyboInverter.</i></p>	

**Product: CyboInverter - 4 Channel 1.2KW Off-Grid Solar Power Mini-Inverter  
CI-Mini-1000Tx Standalone Off-Grid Model for 230V, 50Hz IAC Units**

**Never connect the Off-Grid CyboInverter 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-1000Tx (Rev 5.1 – June 2017)

<b>DC Input (per Channel)</b>	60 / 72 Cell Panel	Battery*
Recommended Input Power	250W – 330W	48V, 50AH – 300AH
Operating Input DC Voltage Range	15V – 58V	47V – 58V
Peak Power Performance Range	30V – 58V	48V – 58V
Maximum Input DC Voltage / Current	58V / 9A	58V / 9A
Maximum Input Power	300W	300W
Minimum Starting Voltage	20V	47V
<b>AC Output</b>	Data	
Rated Output Power / Peak Output Power	960W / 1150W	
Startup Surge Power for 12 Seconds	1500W (Max Surge DC Power = 400W per Channel)	
Nominal Output Current (RMS)	4.17A (RMS – Root Mean Square)	
Nominal Output Voltage / Range	230V (170V – 253V, Single-Phase)	
Nominal Frequency / Range	50Hz (49.5Hz – 50.5Hz)	
Power Factor	>0.95	
<b>Efficiency</b>	Data	
Peak Efficiency / MPPT Tracking	96% (99%)	
<b>Mechanical Data</b>	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	-40°F to +190°F
Dimensions w/o mounting bracket (L x H x W)	32cm x 24cm x 5.8cm	12.5" x 9.5" x 2.3"
Weight	6.5 kg	14.25 lbs
Cooling / Enclosure	Natural Convection, No Fan / Potted	
DC / AC Wire and Connectors	1 and 2 Feet DC Wire, MC-4 Connectors / 4 Feet AC wire	
<b>Features and Compliance</b>	Data	
Safety and EMC Compliance	UL1741 and IEEE1547 (E113426), FCC Part 15 Class A. NEC 690.12 Rapid Shutdown of PV Systems.	
Compatibility	Most 60-Cell and 72-Cell PV Solar Panels	
DC Ground Fault Detector Interrupter (GFDI)	Built-In	
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.	

\* Supports 48V Lead-Acid Battery or 20V-55V Lithium Battery Packs. No batteries are required to run Inverter-Air-Conditioners (IAC) during the day when there is sufficient sunlight.