



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 1150W, 120V, 60Hz AC to run Inverter-Air-Conditioners (IAC). Installation is super easy.


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|--|---|
| <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-1000Nx Standalone Off-Grid Model for 115V-120V, 60Hz 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-1000NX (Rev 5.1 – June 2017)

| DC Input (per Channel) | 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 |
| AC Output | 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) | 8A (RMS – Root Mean Square) | |
| Nominal Output Voltage / Range | 120V (90V – 132V, 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 | -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 | |
| Features and Compliance | Data | |
| Safety and EMC Compliance | UL1741 and IEEE1547 (E113426), CSA 107.1, 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.