

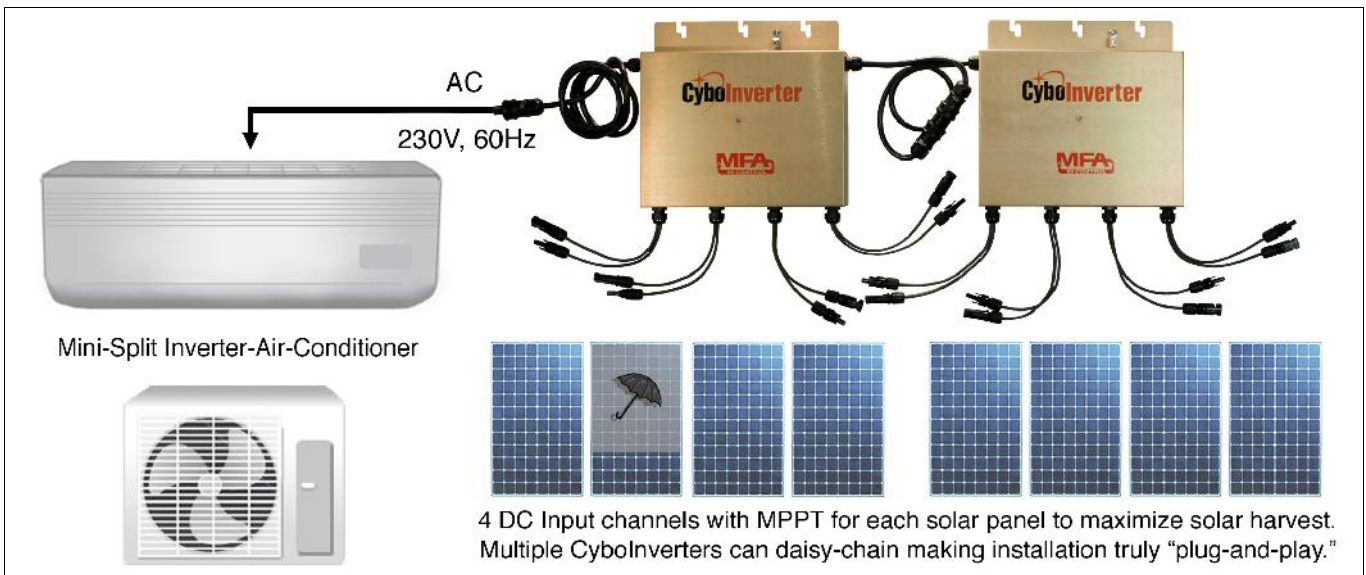


# The World's First **Battery-less Off-Grid Solar Inverter for Air Conditioners**



- For Inverter-Air-Conditioners (IAC), Requiring no Batteries
- Supports 9000 to 24000 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

One Master (CI-Mini-1000R1x) & Slave (CI-Mini-1000R2x) off-grid CyboInverter can daisy-chain, and produce up to 2300W, 230V, 60Hz AC to run Inverter-Air-Conditioners (IAC).



**Product: Off-Grid CyboInverter Twin Pack for A/C Units (8 Input Channels)**

**Part No: CI-Mini-1000R1x / R2x, Daisy-Chained Off-Grid Model, 230V, 60Hz AC**

**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.**

## Technical Data of CIM-1000R1x and R2x (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 (per Inverter)	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	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	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.