

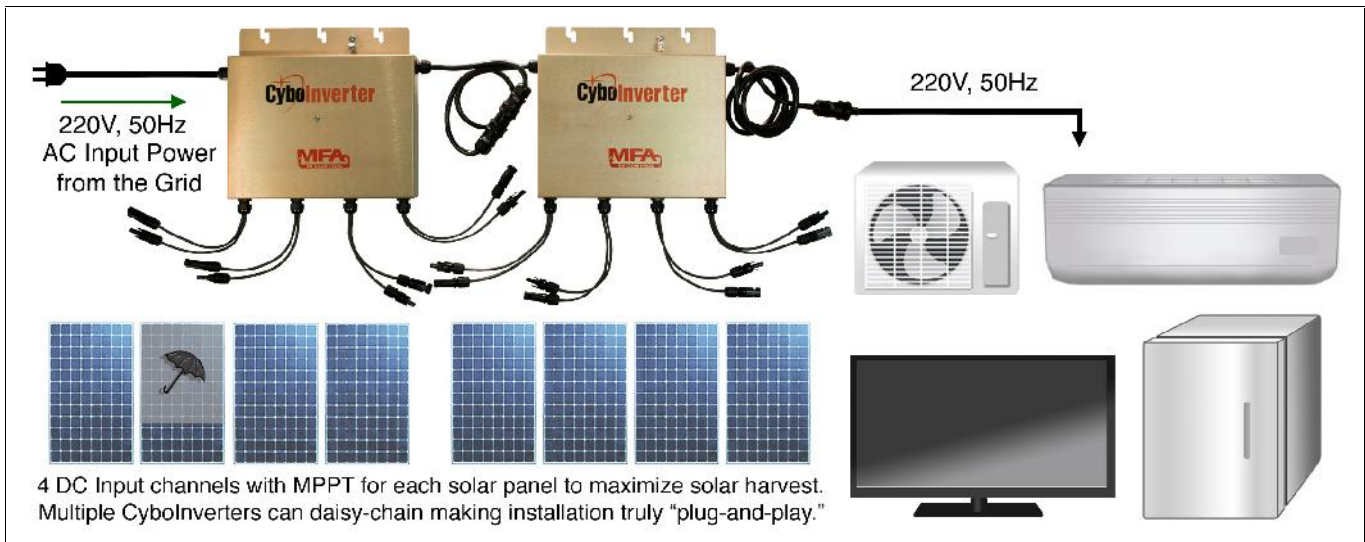


The World's First AC Assisted Off-Grid Solar Inverter – Twin Pack



- Can run AC loads with solar power only, grid power only, or combined power
- Can start heavy loads with assisted AC power and run the loads with only solar power
- Pure Sinewave AC output
- Require no batteries
- MPPT for each solar panel
- Avoid all the headaches of an on-grid solar system

The Master and Slave CyboInverters can daisy-chain producing up to 2300W, 220V, 50Hz AC. With assisted AC power from the grid, they can run AC loads including: air-conditioners, refrigerators, chillers, heaters, EV chargers, pumps, motors, appliances, lights, fans, TV, computers, etc.




Product: AC Assisted Off-Grid CyboInverter Twin Pack (8 Input Channels)

Part No: CI-Mini-1000S1a / S2a, Daisy-Chained Off-Grid Model, 220V, 50Hz AC

Never connect the Output of the Off-Grid CyboInverter to the grid. Doing so will damage the unit and void the warranty. Check Input AC Voltage before Connecting .

Technical Data of CIM-1000S1a and S2a (Rev 5.3 – Sept 2018)

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 Input (Master Unit Only)	Data	
AC Input for Assisted AC Power	220V, 50Hz AC from the Grid	
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)	4.36A (RMS – Root Mean Square)	
Nominal Output Voltage / Range	220V (198V – 242V, Single-Phase)	
Nominal Frequency / Range	50Hz (49.5Hz – 50.5Hz)	
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), FCC Part 15 Class A. (Certification Pending)	
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	

* Supports 48V Lead-Acid Battery or 20V-55V Lithium Battery Packs. However, no batteries are required.