

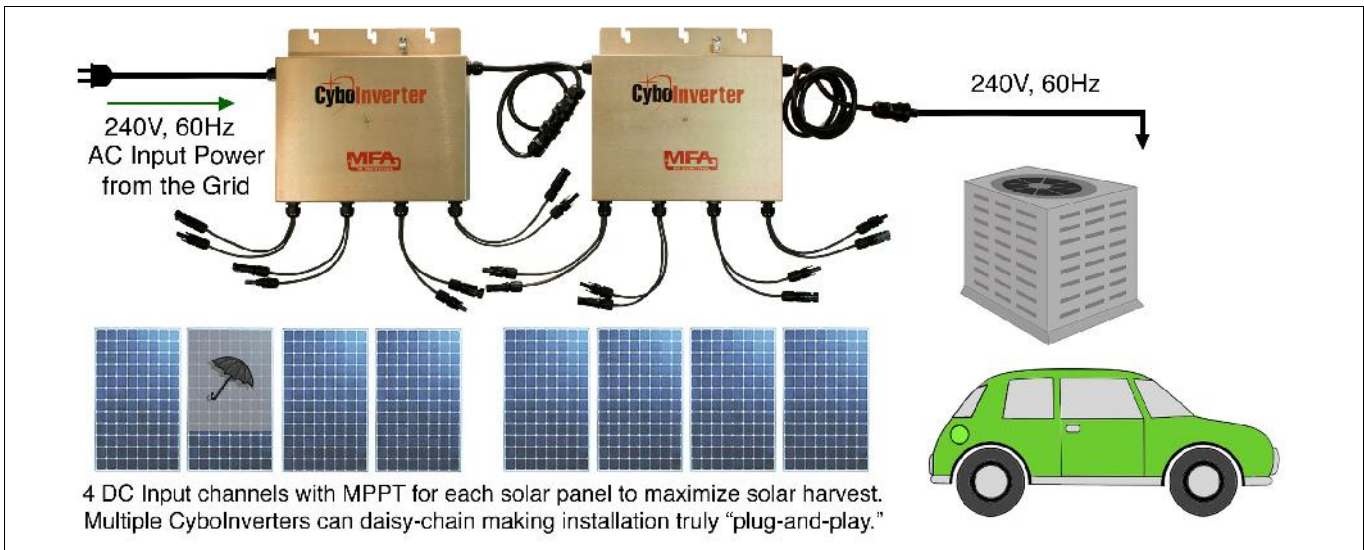


The World's First AC Assisted Off-Grid Solar Inverter – Twin Pack



- 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 2500W, 240V, 60Hz AC. The system can support a 240V 30A branch circuit. With a 30A dual-circuit or triple circuit timer, it can run heavy AC loads such as air-conditioners, swimming pool pumps, or EV chargers.



Product: AC Assisted Off-Grid CyboInverter Twin Pack (8 Input Channels)
Part No: CIM-1200Y1a / Y2a, Daisy-Chained Model for 220V-240V, 60Hz Loads

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-1200Y1a and Y2a (Rev 6.1 – July 2019)

DC Input (per Channel)	60 / 72 Cell Panel	Battery*
Supported Input Power	250W – 380W	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 / 10.5A	58V / 10.5A
Maximum Input Power	330W	330W
Minimum Starting Voltage	20V	47V
AC Input (Master Unit Only)	Data	
AC Input for Assisted AC Power	220V - 240V, 60Hz AC (Split-Phase AC, L1-N-L2)	
AC Output (per Inverter)	Data	
Rated Output Power / Peak Output Power	960W / 1250W	
Maximum Combined Output Power	4500W for a Ya Model or its Twin Pack Based System	
Nominal Output Current (RMS)	4A (RMS – Root Mean Square)	
Nominal Output Voltage / Range	240V (204V – 264V, Single-Phase)	
Nominal Frequency / Range	60Hz (57Hz – 62Hz)	
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 Wire / AC Wire	1-2 Ft DC Wires / 12 Ft AC Wires (THHN), Copper, 30A	
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	
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.