

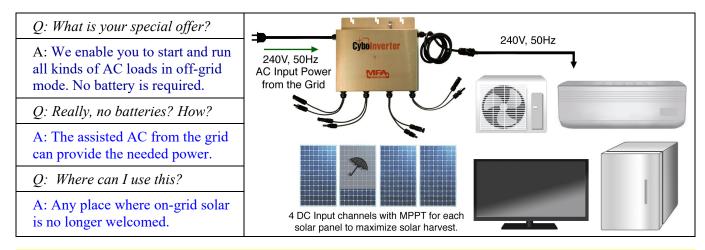
The World's First AC Assisted Off-Grid Solar Inverter for "all" AC Loads





- **2020 Top Solar Inverter by Solar** Power World Magazine.
- 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.
- Require no batteries.
- Avoid all the headaches of an ongrid solar system.

Each CyboInverter (CIM-1200Za) can connect to 4 solar panels and produce up to 1250W, 240V, 50Hz AC. With assisted AC power from the grid, it can run AC loads including: air-conditioners, refrigerators, chillers, heaters, EV chargers, pumps, motors, appliances, lights, fans, TV, computers, etc



Product: CyboInverter - 4 Channel 1.25KW AC Assisted Off-Grid Solar InverterCIM-1200ZaStandalone Off-Grid Model for 240V, 50Hz AC Loads.

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

Made in <mark>U.S.A.</mark>





Technical Data of CIM-1200Za [Rev 6.6 – January 2024]

DC Input (per Channel)	60/66 Cell Panel	72 Cell Panel*	Battery**	
Supported Input Power	250W - 400W	300W - 450W	48V, 50-300AH	
Operating Input DC Voltage Range	18V - 60V	18V - 60V	47V - 60V	
Peak Power Performance Range	30V - 60V	30V - 60V	48V - 60V	
Maximum Input DC Voltage / Current	60V / 11.5A	60V / 11.5A	60V / 11.5A	
Maximum Input Power	330W	330W	330W	
Minimum Starting Voltage	20V	20V	47V	
AC Input	Data			
AC Input for Assisted AC Power	Single-phase 240V, 50Hz AC from Grid or AC Generator			
AC Output				
Rated Output Power / Peak Output Power	960W / 1250W			
Maximum Combined Output Power	4500W for the Za 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	50Hz (47Hz – 52Hz)			
Efficiency	Data			
Peak Efficiency / MPPT Tracking	96% (99%)			
Mechanical Data	SI		U.S.	
Ambient Temperature Range	-40°C to +65°C	-40°F to	-40°F to +149°F	
Internal Operating Temperature Range	-40°C to +88°C	-40°F to	-40°F to +190°F	
Dimensions w/o mounting bracket (L x H x W)	32cm x 24cm x 5.86	cm 12.5" x	9.5" x 2.3"	
Weight	6.5 kg	14.25 lb	98	
Cooling / Enclosure	Natural Convection, No Fan / Potted			
DC Wire / AC Wire	1-2 Ft DC Wires / 8 Ft AC Wires (THHN), Copper, 30A			
Features and Compliance	Data			
Safety and EMC Compliance	UL1741 and IEEE1547 (E113426), FCC Part 15 Class A.			
Rapid Shutdown	Complies with NEC 2014/2017 690.12.			
DC Ground Fault Detector Interrupter (GFDI)	Built-In (MET)®			
Standard Warranty	3 Years (Extended Warranty Available)			
Enclosure Environmental Rating / Safety	Outdoor – NEMA 6 / Transformer Isolated Circuits			

*Do not use 72-cell solar panels in areas where temperature can get below -10 degrees F (-23 degrees C). **Supports 48V Lead-Acid Battery or 20V-55V Lithium Battery Packs. However, no batteries are required.