



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



- 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
- Requires no batteries
- MPPT for each solar panel
- Avoids all the headaches of an on-grid solar system

Each CyboInverter (CIM-1200Ta) can connect to 4 solar panels and produce up to 1250W, 230V, 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

<p><i>Q: What is your special offer?</i></p>	
<p><i>A: We enable you to start and run all kinds of AC loads in off-grid mode. No battery is required.</i></p>	
<p><i>Q: Really, no batteries? How?</i></p>	
<p><i>A: The assisted AC from the grid can provide the needed power.</i></p>	
<p><i>Q: Where can I use this?</i></p>	
<p><i>A: Any place where on-grid solar is no longer welcomed.</i></p>	

**Product: CyboInverter - 4 Channel 1.2KW AC Assisted Off-Grid Solar Inverter CIM-1200Ta Standalone Off-Grid Model for 220V-240V, 50Hz AC 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.**

**Made in U.S.A.**

## Technical Data of CIM-1200Ta (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
<b>AC Input</b>	Data	
AC Input for Assisted AC Power	230V, 50Hz AC from the Grid or an AC Generator	
<b>AC Output</b>	Data	
Rated Output Power / Peak Output Power	960W / 1250W	
Maximum Combined Output Power	4000W for a Ta Model or its Twin Pack Based System	
Nominal Output Current (RMS)	4.17A (RMS – Root Mean Square)	
Nominal Output Voltage / Range	230V (196V – 253V, Single-Phase)	
Nominal Frequency / Range	50Hz (47Hz – 53Hz)	
<b>Efficiency</b>	Data	
Peak Efficiency / MPPT Tracking	96% (99%)	
<b>Mechanical Data</b>	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 / 8 Ft AC Wires (THHN), Copper, 30A	
<b>Features and Compliance</b>	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	
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.