



The World's First Off-Grid Solar Mini-Inverter for Water Heaters



- **2021 Top Solar Inverter by Solar Power World Magazine.**
- **Specially Designed to Power Electric Water Heaters.**
- **Reduce Electricity Bills, Avoid High Tier Rates, and Quick ROI.**
- **Four DC Input Channels with MPPT for each Channel.**
- **High Efficiency and Long Life.**
- **Much Easier to Install than a Thermal Solar System.**

Each CyboInverter (CIM-1200H) can connect to 4 solar panels and produce up to 1250W pure Sinewave AC to power the lower heating element of a dual-element water heater with easy wiring.


<p>Dual Element Electric Water Heater</p>	<p>4 DC Input channels with MPPT for each solar panel to maximize solar harvest.</p>	<p>Solar Heating for Single Element Water Heaters, Air Heaters.</p>	
<p>Solar Heating for Base Board Heaters, Area Heaters, Floor Heating Cables, Mats, and Carpet.</p>		<p>Solar Cooking with Hot Plates or Electric Cookware.</p>	<p>Solar Cooking with Hot Plates or Electric Cookware.</p>

Product: 4 Channel 1.25KW Off-Grid CyboInverter for Electric Water Heaters
Part No: CIM-1200H Standalone Off-Grid Model, 100V-240V, 50/60Hz AC

Never connect the Off-Grid CyboInverter to the AC grid. Doing so will damage the unit and void the warranty. Use this inverter for electric heating elements ONLY.

Made in U.S.A.

Technical Data of CIM-1200H (Rev 6.6 – January 2024)

DC Input (per Channel)	60-66 Cell / 120 Half-Cell	72 Cell Panel*
Supported Solar Panels	250W – 400W	300W – 450W
Operating Input DC Voltage Range	18V – 60V	18V – 60V
Peak Power Performance Range	30V – 60V	30V – 60V
Maximum Input DC Voltage / Current	60V / 11.5A	60V / 11.5A
Maximum Input Power	330W	330W
Minimum Starting Voltage	20V	20V
AC Output	Data	
Rated Output Power / Peak Output Power	960W / 1250W	
Maximum Output Current (RMS)	10.5A (RMS – Root Mean Square)	
Nominal Operating AC Output Voltage / Range	100V – 240V (10V – 264V, Single-Phase)	
Nominal Frequency / Range	60Hz (59.5Hz – 60.5Hz) or 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 Wire / AC Wire	1-2 Feet DC Wires / 4 Feet AC Wires (THHN), Copper	
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	

CyboInverter H Model is designed to run 240V, 1500W-4500W heating elements of dual- or single-element electric water heaters, area heaters, hot plates, etc. To power lights, fans, TV, PC, battery chargers, EV chargers, Mini-Split IAC, and appliances, use standalone or AC assisted off-grid CyboInverters.

* Do not use 72-cell solar panels in areas where temperature can get below -10 degrees F (-23 degrees C).