



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



- Specially Designed for Powering Dual-Element Electric Water Heaters and Heating Elements.
- Reduces Electricity Bills, Avoids High Tier Rates, and Quick ROI.
- Four DC Input Channels with Maximum Power Point Tracking.
- Easy Installation and Great Price.
- High Efficiency and Long Life.
- Much Easier to Install than Thermal Solar Water Heaters.

Each CyboInverter (CI-Mini-1200H) can connect to 4 solar panels and produce up to 1150W AC to power the lower heating element of a dual-element electric water heater with easy wiring to the heater.


<p>CyboInverters power the lower heating element. Its thermostat is set higher than the upper element so grid power is not consumed.</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 Cooking with Hot Plates, Cookware, etc.</p>		<p>Solar Heating for Base Board Heaters, Area Heaters, etc.</p>	
<p>Solar Heating for Electric Floor Heating Cables, Mats, and Carpet.</p>			

Product: 4 Channel 1.2KW Off-Grid CyboInverter for Electric Water Heaters
Part No: CI-Mini-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 CI-Mini-1200H [Rev 2.3 – April 2015]

DC Input (per Channel)	60 Cell Panel	72 Cell Panel
Recommended Input Power	220W – 280W	240W – 320W
Operating Input DC Voltage Range	15V – 48V	20V – 48V
Peak Power Performance Range	30V – 48V	30V – 48V
Maximum Input DC Voltage / Current	48V / 9A	48V / 9A
Maximum Input Power	300W	300W
Minimum Starting Voltage	20V	20V
AC Output	Data	
Maximum Output Power / Rated Output Power	1150W / 960W	
Maximum Output Current (RMS)	9.5A (RMS – Root Mean Square)	
Nominal Operating AC Output Voltage / Range	100V – 240V (10V – 264V, Single-Phase)	
Nominal Frequency / Range	50Hz / 60Hz (49.5Hz – 60.5Hz)	
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 Foot DC Wire, MC-4 Connectors / 3 Feet AC wire	
Features and Compliance	Data	
Safety and EMC Compliance	UL1741 and IEEE1547 (E113426), CSA 107.1, FCC Part 15 Class A	
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	

The CyboInverter H Model should be used for 750W-1500W heating elements of dual- or single-element electric water heaters, area heaters, hot plates, etc. To power lights, fans, TV, PC, battery chargers, food processors, refrigerators, small appliances, etc., please use regular off-grid CyboInverters.

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