

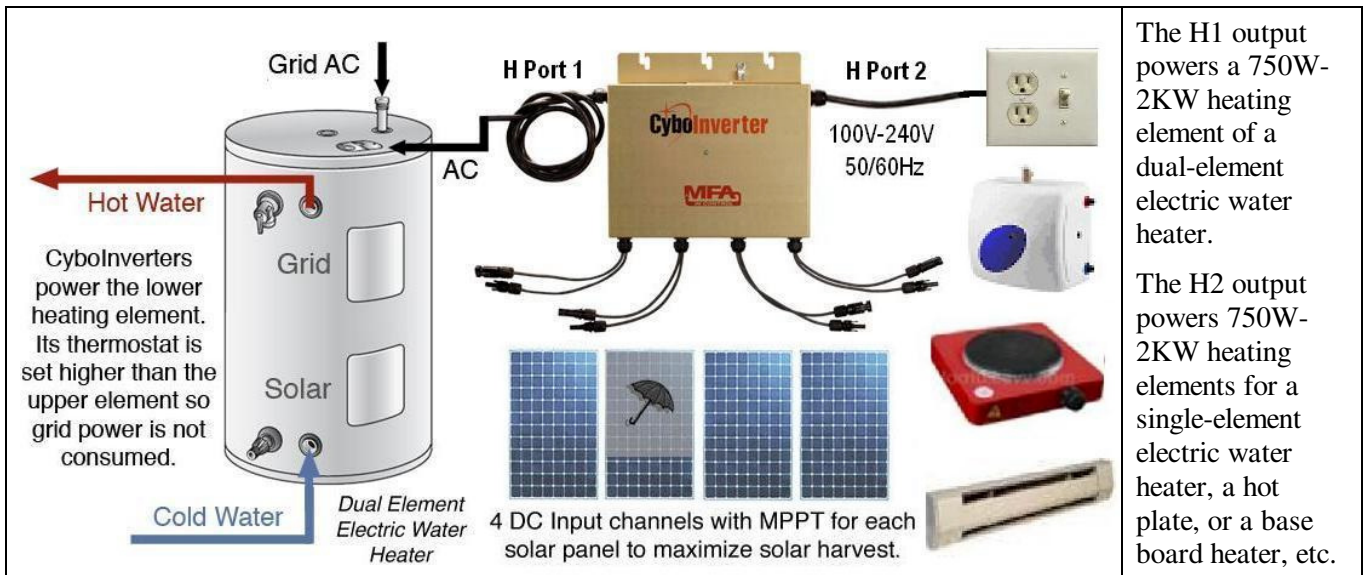


# Dual-Output Off-Grid Solar Power Mini-Inverter for Heating Elements



- Dual AC Output Ports
- Pure Sinewave AC Outputs
- Four DC Input Channels
- MPPT for Each Solar Panel
- Specially Designed for Powering 2 Dual-Element Electric Water Heaters or Heating Elements.
- Much Easier to Install than Thermal Solar Systems.

Each CyboInverter (CIM-1200H/H) can connect to 4 solar panels and generate up to 1150W AC to power 2 sets of heating elements via H output port 1 or 2. Switches between the 2 ports automatically.




The H1 output powers a 750W-2KW heating element of a dual-element electric water heater.

The H2 output powers 750W-2KW heating elements for a single-element electric water heater, a hot plate, or a base board heater, etc.

**Product: 4 Channel 1.2KW Dual-Output Off-Grid CyboInverter for Microgrids**  
**Part No: CIM-1200H/H, H Output 1 and H Output Port 2: 100V-240V, 50/60Hz**

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

## Technical Data of CIM-1200H/H (Rev 1.2 – June 2016)

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	H Output Port 1	H Output Port 2
Rated Output Power / Peak Output Power	960W / 1150W	960W / 1150W
Nominal Output Current (RMS)	4A – 8A	4A – 8A
Maximum Output Current (RMS)	9.5A	9.5A
Nominal Output Voltage / Range	100V–240V / (10V–264V)	100V–240V / (10V–264V)
Nominal Frequency / Range	50/60Hz (49.5Hz – 59.5Hz)	50/60Hz (49.5Hz – 59.5Hz)
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	1-2 Feet DC Wire with MC-4 Connectors / 3 Feet AC wires	
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/H Model should be used for 750W-2000W 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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