

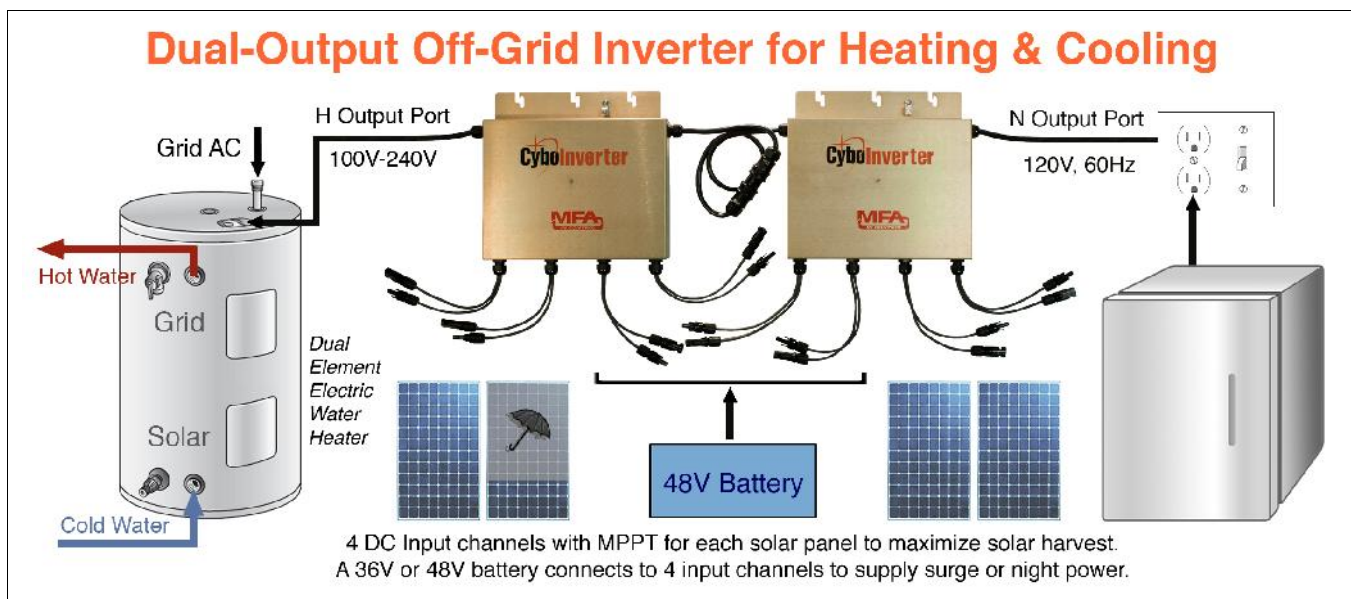


## Dual-Output Off-Grid Solar Power Mini-Inverter Twin Pack




- Dual Output Ports
- Specially Designed for Powering Electric Water Heaters in Off-Grid Mode 1 or AC Loads in Mode 2
- Total 8 DC Input Channels with Solar or Battery Input
- MPPT for Each Solar Panel
- Pure Sinewave AC Outputs
- Solar or Battery Auto-Detection
- Battery Over Discharge Protection
- High Efficiency and Long Life

One Master (CIM-1200H/N1) & one Slave (CIM-1200H/N2) CyboInverters can daisy-chain, power 2000W-4000W heating elements or resistive loads through its H Output Port in Off-Grid Mode 1, or produce up to 2500W, 120V, 60Hz AC to run AC loads through its N Output Port in Off-Grid Mode 2.



**Product: Dual-Output Off-Grid CyboInverter Twin Pack for Microgrids**  
**Part No: CIM-1200H/N1, H/N2, H Port: 100V-240V, N Output Port: 120V, 60Hz**

## Technical Data of CIM-1200H/N1, H/N2 (Rev 6.0 – July 2019)

<b>DC Input (per Channel)</b>	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
Compatible Batteries	48V Lead-Acid Deep-Cycle AGM or Lithium-Ion Pack	
<b>AC Output (per Inverter)</b>	H Output Port	N Output Port
Rated Output Power / Peak Output Power	960W / 1250W	960W / 1250W
Nominal Output Current (RMS)	4A – 8A	8A
Maximum Output Current (RMS)	10.5A	10.5A
Nominal Output Voltage / Range	100V – 240V (10V – 264V)	120V (108V – 132V)
Nominal Frequency / Range	60Hz (59.5 – 60.5) Hz	60Hz (59.5 – 60.5) Hz
Compatible Water Heaters or Heating Elements	2KW – 5KW, 240V Heating Elements for the Twin Pack	
<b>Efficiency</b>	Data	
Peak Efficiency / Solar 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 Feet DC Wires / 16 Feet AC Wires (THHN), Copper	
<b>Compliance and Features</b>	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 (IP67) / Transformer Isolated Circuits	
Built-in Battery Over Discharge Protection	Low Voltage Disconnect (LVD) on Battery Channels.	

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