

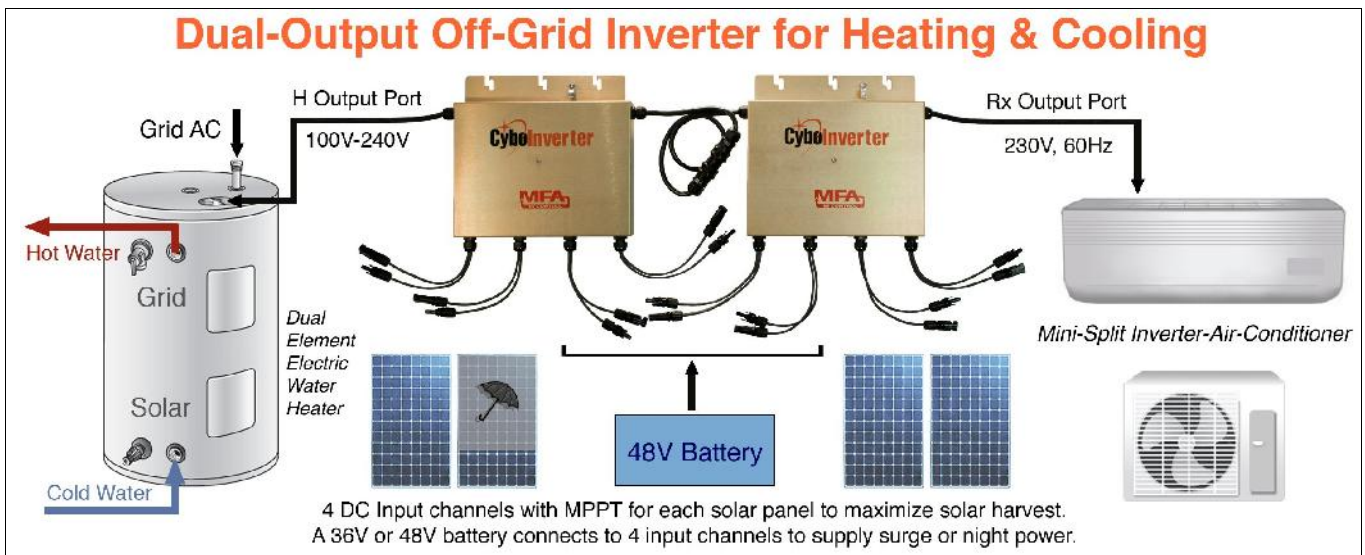


## Dual-Output Battery-less Off-Grid Inverter for Heaters / Air Conditioners




- Dual Output Ports
- Specially Designed for Powering Electric Water Heaters in Off-Grid Mode 1 or Inverter-Air-Conditioners (IAC) in Off-Grid Mode 2
- Supports 9000 to 24000 Btu IAC
- Total 8 DC Input Channels with Solar or Battery Input
- MPPT for Each Solar Panel
- Pure Sinewave AC Outputs
- Solar or Battery Auto-Detection
- High Efficiency and Long Life

One Master (CIM-1200H/R1x) & one Slave (CIM-1200H/R2x) CyboInverters can daisy-chain, power 2000W-4000W heating elements or resistive loads through its H Output Port in off-grid mode 1, or run 230V, 60Hz Inverter-Air-Conditioners (IAC) through its Rx Output Port in off-grid mode 2.



**Product: Dual-Output Off-Grid CyboInverter Twin Pack for Microgrids  
CIM-1200H/R1x, H/R2x, H Port: 100V-240V, Rx Output Port: 230V, 60Hz**

## Technical Data of CIM-1200H/R1x, H/R2x (Rev 6.0 – 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   |
| Compatible Batteries                         | 48V Lead-Acid Deep-Cycle AGM or Lithium-Ion Pack               |   |
| AC Output (per Inverter)                     | H Output Port  | Rx Output Port  |
| Rated Output Power / Peak Output Power       | 960W / 1250W   | 960W / 1250W  |
| Nominal Output Current (RMS)                 | 4A – 8A  | 4.17A   |
| Nominal Output Voltage / Range               | 100V – 240V (10V – 264V)                                       | 230V (170V – 253V)  |
| Nominal Frequency / Range                    | 60Hz (59.5 – 60.5) Hz  | 60Hz (59.5 – 60.5) Hz   |
| Compatible Water Heaters or Heating Elements | 2KW – 4KW, 240V Heating Elements for the Twin Pack             |   |
| Efficiency                                   | Data   |   |
| Peak Efficiency / Solar 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 / 16 Feet AC Wires (THHN), Copper            |   |
| Compliance and Features                      | 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.**