

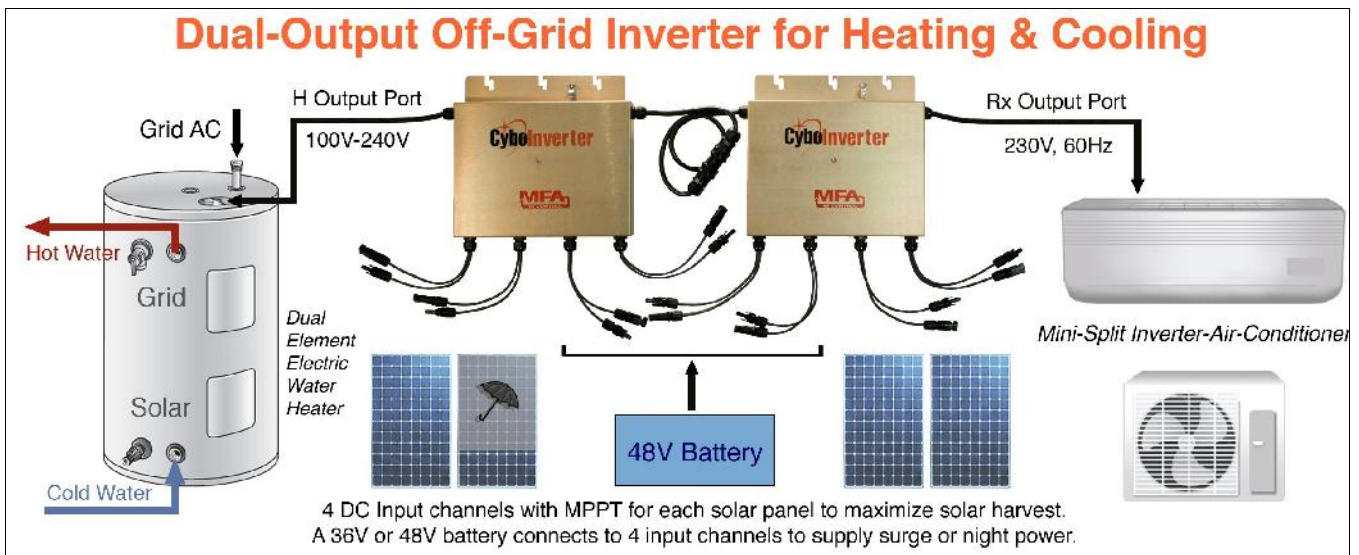


## Dual-Output Battery-less Off-Grid Inverter for Heaters / Air Conditioners




- 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 5.1 – June 2017)

DC Input (per Channel)	60 / 72 Cell Panel	Battery
Recommended Input Power	250W – 330W	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 / 9A	58V / 9A
Maximum Input Power	300W	300W
Minimum Starting Voltage	20V	47V
Compatible Solar Panels	Most 60-Cell and 72-Cell PV Solar Panels	
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 / 1150W	960W / 1150W
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 Connectors / AC Connectors	MC-4 or Compatible / Wieland RST 3-Conductor	
Compliance and Features	Data	
Safety and EMC Compliance	UL1741 and IEEE1547 (E113426), CSA 107.1, FCC Part 15 Class A. NEC 690.12 Rapid Shutdown of PV Systems.	
DC Ground Fault Detector Interrupter (GFDI)	Built-In	
Standard Warranty	3 Years (Extended Warranty Available)	
Compatibility	Most 60-Cell and 72-Cell PV Solar Panels	
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.**