

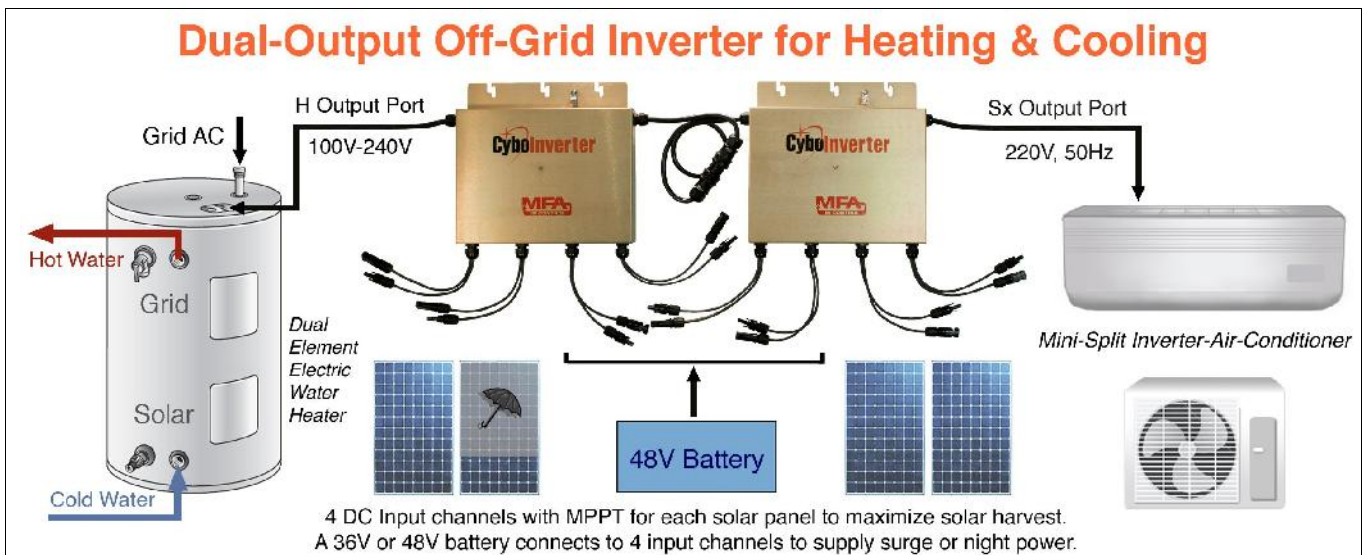


## Dual-Output Battery-less Off-Grid Inverter for Heaters / Air Conditioners




- 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/S1x) & one Slave (CIM-1200H/S2x) CyboInverters can daisy-chain, power 2000W-4000W heating elements or resistive loads through its H Output Port in off-grid mode 1, or run 220V, 50Hz Inverter-Air-Conditioners (IAC) through its Sx Output Port in off-grid mode 2.



**Product: Dual-Output Off-Grid CyboInverter Twin Pack for Microgrids  
CIM-1200H/S1x, H/S2x, H Port: 100V-240V, Sx Output Port: 220V, 50Hz**

## Technical Data of CIM-1200H/S1x, H/S2x (Rev 5.1 – June 2017)

<b>DC Input (per Channel)</b>	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	
<b>AC Output (per Inverter)</b>	H Output Port	Sx Output Port
Rated Output Power / Peak Output Power	960W / 1150W	960W / 1150W
Nominal Output Current (RMS)	4A – 8A	4.36A
Nominal Output Voltage / Range	100V – 240V / (10V – 264V)	220V (155V – 242V)
Nominal Frequency / Range	50Hz (49.5 – 50.5) Hz	50Hz (49.5 – 50.5) Hz
Compatible Water Heaters or Heating Elements	2KW – 4KW, 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 Connectors / AC Connectors	MC-4 or Compatible / Wieland RST 3-Conductor	
<b>Compliance and Features</b>	Data	
Safety and EMC Compliance	UL1741 and IEEE1547 (E113426), 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.**