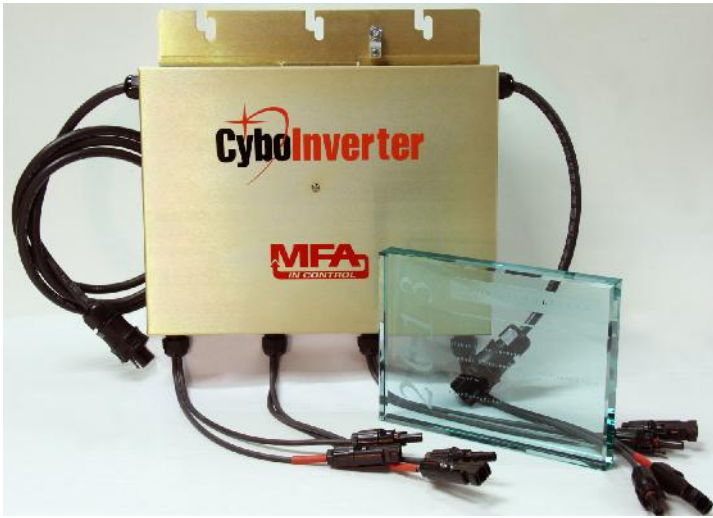


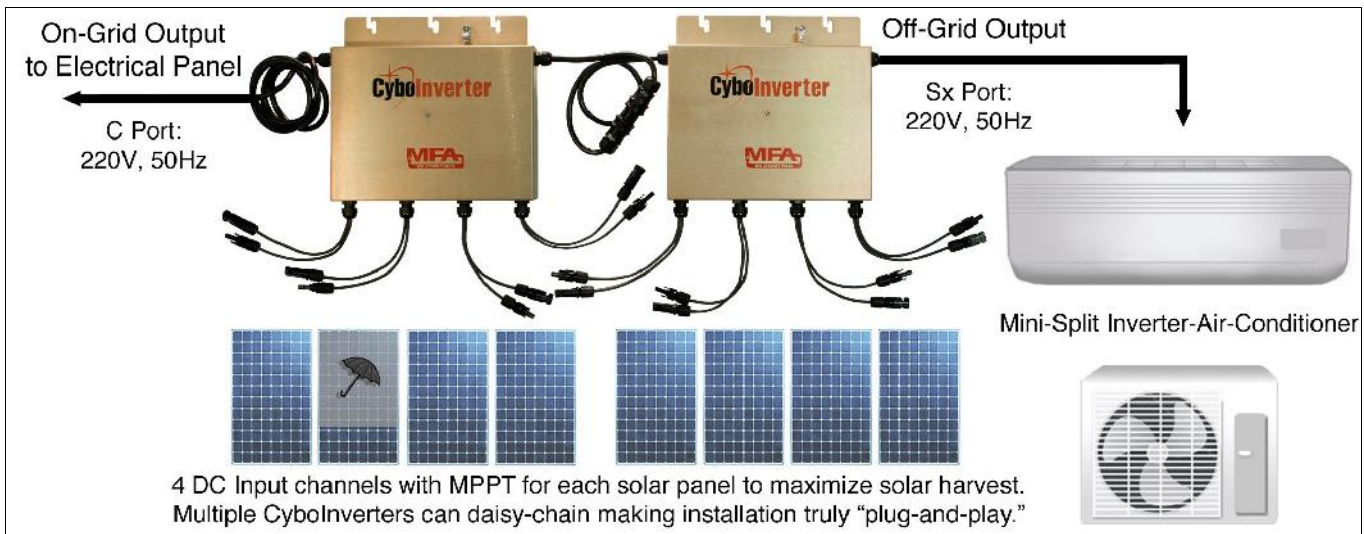


# The World's First **Battery-less On/Off-Grid Solar Inverter** for Air Conditioners




- On-Grid or Off-Grid Mode
- Specially Designed to Run Inverter-Air-Conditioners (IAC) in Off-Grid Mode without Batteries
- Supports 9000 to 24000 Btu IAC
- Total 8 DC Input Channels with Solar or Battery Input
- MPPT for Each Solar Panel
- Pure Sinewave AC Output
- Solar or Battery Auto-Detection
- Outdoor or Indoor Mounting, Efficiency and Long Life

One Master (CIM-1200C/S1x) & one Slave (CIM-1200C/S2x) On/Off-Grid CyboInverter can daisy-chain, and produce up to 2500W, 220V, 50Hz AC to the grid through its C Port in on-grid mode, or run 220V, 50Hz Inverter-Air-Conditioners (IAC) through its Sx Output Port in off-grid mode.



**Product: On/Off-Grid CyboInverter C/Sx Twin Pack (Total 8 Input Channels)**  
**CIM-1200C/S1x, C/S2x, C Port: 220V, 50Hz, Sx Output Port: 220V, 50Hz**

## Technical Data of CIM-1200C/S1x, C/S2x (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)	On-Grid, C Port	Off-Grid, Sx Port
Rated Output Power / Peak Output Power	960W / 1250W	960W / 1250W
Nominal Output Current (RMS)	4.36A	4.36A
Nominal Output Voltage / Range	220V (193.6V – 242V)	220V (155V – 242V)
Nominal Frequency / Range	50Hz (49.3 – 50.5) Hz	50Hz (49.5 – 50.5) Hz
Power Factor / Harmonic Distortion	>0.95 (THD < 4%, 2 <sup>nd</sup> Harmonic < 1%)	
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 / 18 Feet AC Wires (THHN), Copper	
Compliance and Features	Data	
Safety and EMC Compliance	UL1741 and IEEE1547 (E113426), FCC Part 15 Class A. (Amendment Pending).	
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.**