

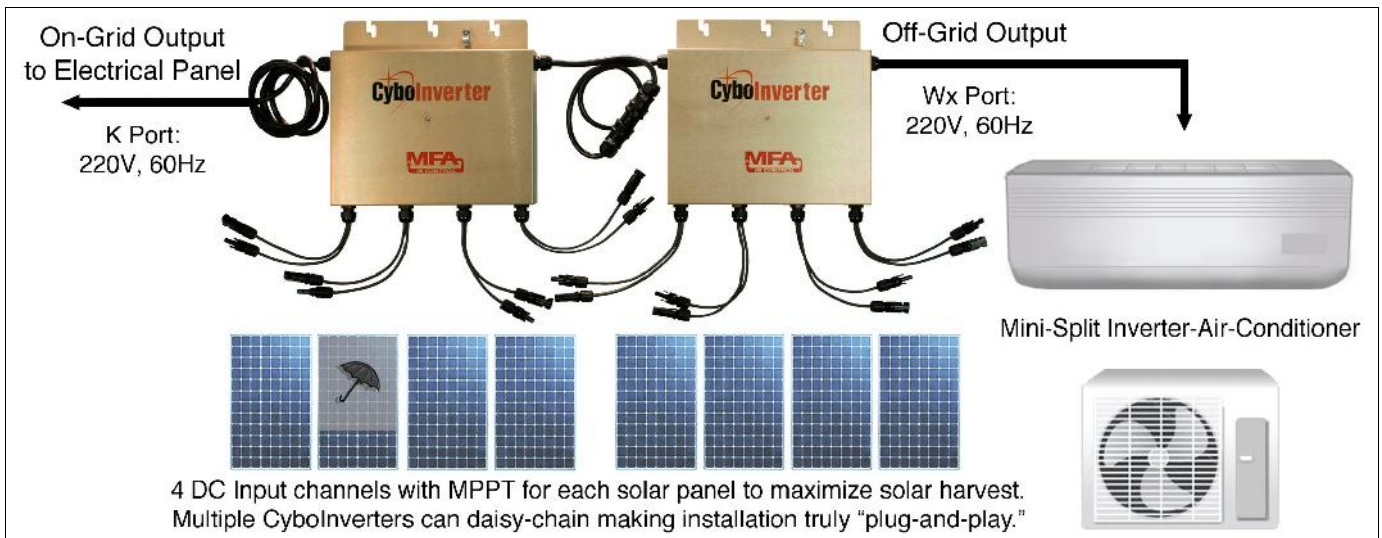


# The World's First **Battery-less On/Off-Grid Solar Inverter** for Air Conditioners




- 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-1200K/W1x) & one Slave (CIM-1200K/W2x) On/Off-Grid CyboInverter can daisy-chain, and produce up to 2300W, 220V, 60Hz AC to the grid through its K Port in on-grid mode, or run 220V, 60Hz Inverter-Air-Conditioners (IAC) through its Wx Output Port in off-grid mode.



**Product: On/Off-Grid CyboInverter K/Wx Twin Pack (Total 8 Input Channels)**  
**CIM-1200K/W1x, K/W2x, K Port: 220V, 60Hz, Wx Output Port: 220V, 60Hz**

## Technical Data of CIM-1200K/W1x, K/W2x (Rev 5.1 – June 2017)

DC Input (per Channel)	60/72 Cell Panel	Battery	DC Wind Gen
Recommended Input Power	250W – 330W	48V, 100AH	200W – 300W
Operating Input DC Voltage Range	15V – 58V	47V – 58V	20V – 45V
Peak Power Performance Range	30V – 58V	48V – 58V	20V – 40V
Maximum Input DC Voltage / Current	58V / 9A	58V / 9A	48V / 9A
Maximum Input Power	300W	300W	300W
Minimum Starting Voltage	20V	47V	20V
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)	On-Grid, K Port	Off-Grid, Wx Port	
Rated Output Power / Peak Output Power	960W / 1150W	960W / 1150W	
Nominal Output Current (RMS)	4.36A	4.36A	
Nominal Output Voltage / Range	220V (193.6V – 242V)	220V (155V – 242V)	
Nominal Frequency / Range	60Hz (59.3 – 60.5) Hz	60Hz (59.5 – 60.5) 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 Connectors / AC Connectors	MC-4 or Compatible / Wieland RST 3-Conductor		
Compliance and Features	Data		
Safety and EMC Compliance	UL1741 and IEEE1547 (E113426), FCC Part 15 Class A. (Amendment Pending). 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		

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