



The World's First AC Assisted Off-Grid Solar Inverter for "all" AC Loads



- 2020 Top Solar Inverter by Solar Power World Magazine.
- Can run AC loads with solar power only, grid power only, or combined power.
- Can start heavy loads with assisted AC power and run the loads with only solar power.
- Require no batteries.
- Avoid all the headaches of an on-grid solar system.

Each CyboInverter (CIM-1200Sa) can connect to 4 solar panels and produce up to 1250W, 220V, 50Hz AC. With assisted AC power from the grid, it can run AC loads including: air-conditioners, refrigerators, chillers, heaters, EV chargers, pumps, motors, appliances, lights, fans, TV, computers, etc


<p><i>Q: What is your special offer?</i></p>	
<p><i>A: We enable you to start and run all kinds of AC loads in off-grid mode. No battery is required.</i></p>	
<p><i>Q: Really, no batteries? How?</i></p>	
<p><i>A: The assisted AC from the grid can provide the needed power.</i></p>	
<p><i>Q: Where can I use this?</i></p>	
<p><i>A: Any place where on-grid solar is no longer welcomed.</i></p>	

Product: CyboInverter - 4 Channel 1.25KW AC Assisted Off-Grid Solar Inverter CIM-1200Sa Standalone Off-Grid Model for 220V, 50Hz AC Loads.

Never connect the Output of the Off-Grid CyboInverter to the grid. Doing so will damage the unit and void the warranty. Check Input AC Voltage before connecting.

Made in U.S.A.

Technical Data of CIM-1200Sa (Rev 6.6 – January 2024)

DC Input (per Channel)	60/66 Cell Panel	72 Cell Panel*	Battery**
Supported Input Power	250W – 400W	300W – 450W	48V, 50-300AH
Operating Input DC Voltage Range	18V – 60V	18V – 60V	47V – 60V
Peak Power Performance Range	30V – 60V	30V – 60V	48V – 60V
Maximum Input DC Voltage / Current	60V / 11.5A	60V / 11.5A	60V / 11.5A
Maximum Input Power	330W	330W	330W
Minimum Starting Voltage	20V	20V	47V
AC Input	Data		
AC Input for Assisted AC Power	Single-phase 220V, 50Hz AC from Grid or AC Generator		
AC Output	Data		
Rated Output Power / Peak Output Power	960W / 1250W		
Maximum Combined Output Power	3500W for the Sa Model or its Twin Pack Based System		
Nominal Output Current (RMS)	4.36A (RMS – Root Mean Square)		
Nominal Output Voltage / Range	220V (187V – 242V, Single-Phase)		
Nominal Frequency / Range	50Hz (47Hz – 52Hz)		
Efficiency	Data		
Peak Efficiency / 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 Ft DC Wires / 8 Ft AC Wires (THHN), Copper, 30A		
Features and Compliance	Data		
Safety and EMC Compliance	UL1741 and IEEE1547 (E113426), 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 / Transformer Isolated Circuits		

*Do not use 72-cell solar panels in areas where temperature can get below -10 degrees F (-23 degrees C).

**Supports 48V Lead-Acid Battery or 20V-55V Lithium Battery Packs. However, no batteries are required.