



The World's First Grid-Interactive Solar & Hybrid Power Mini-Inverter



- Smart and Scalable
- Four DC Input Channels
- Solar, Battery, or Wind Input for each Channel
- MPPT for Each Solar Panel
- Ideal for Battery Backup and Peak-Power Shaving
- Outdoor or Indoor Mounting
- High Efficiency and Long Life
- Powerline Communication


Each CyboInverter (Mini-1000E) can connect to 4 solar panels or other DC sources and produce 1150W, 230V, 50Hz AC to the grid. Multiple CyboInverters can daisy chain. Installation is super easy.

| Item | Central Inverter | Microinverter | Mini-Inverter |
|--------------------------|-----------------------------------|-----------------------------------|---|
| Arc and Fire Risks | High Voltage DC is Risky | Intrinsically Safe | Intrinsically Safe |
| Scalable Inverter | <i>Possibly</i> | No | Yes |
| Inverter vs. Solar Panel | One inverter for all solar panels | One inverter for each solar panel | One inverter for multiple solar panels or wind gen. |
| Partial Shading | A big problem | No problem | No problem |
| MPPT | System level | For each panel | For each panel |
| Design & Installation | Labor intensive | <i>Easy</i> | Easiest |
| Inverter Per Watt Cost | Lowest | Highest | <i>In between</i> |
| Installed System Cost | Highest | <i>In between</i> | Lowest |
| Suitable Application | Large solar system | Small solar system | Small to large systems |

CyboInverter: 4 Channel 1.2KW On-Grid Solar and Hybrid Power Mini-Inverter
Part No: CI-Mini-1000E Maximum CyboInverters per 20A Branch Circuit: 3-4

Made in U.S.A.

Technical Data of CI-Mini-1000E (Rev 5.0 - April 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 | | |
| Compatible Wind Generators | WindStream Tech: SolarMill | | |
| AC Output | Data | | |
| Rated Output Power / Peak Output Power | 960W / 1150W | | |
| Nominal Output Current (RMS) | 4.17A (RMS – Root Mean Square) | | |
| Nominal Output Voltage / Range | 230V (202.4V – 253V, Single Phase) | | |
| Nominal Frequency / Range | 50Hz (49.3 – 50.5) Hz | | |
| Power Factor / Harmonic Distortion | >0.95 (THD < 4%, 2 nd 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) | |  |
| 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 | | |

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