

Enhanced Grid-Interactive Solar & Wind Power Mini-Inverter





- Smart and Scalable
- Four DC Input Channels
- Solar or Wind Input
- MPPT for Each Solar Panel
- Low Per Watt Price
- Outdoor or Indoor Mounting
- High Efficiency and Long Life
- Produces AC at Low Sunlight
- Powerline Communication & Monitoring with CyboBridge

Each CyboInverter (Mini-1000Ae) can connect to 4 solar panels or DC wind generators and produce 1150W, 240V, 60Hz 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 | Possibly | 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 | Easy | Easiest | |
| Inverter Per Watt Cost | Lowest | Highest | In between | |
| Installed System Cost | Highest | In between | Lowest | |
| Suitable Application | Large solar system | Small solar system | Small to large systems | |

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





Technical Data of CI-Mini-1000A (Rev 3.2 - Jan 2016)

| DC Input (per Channel) | 60 Cell Panel | 72 Cell Panel | | DC Wind Gen | |
|---|--|-----------------------------|----------|-------------|--|
| Recommended Input Power | 220W – 280W | 240W - 320W | | 200W - 300W | |
| Operating Input DC Voltage Range | 15V – 58V | 20V – 58V | | 20V – 45V | |
| Peak Power Performance Range | 30V – 58V | 30V – 58V | | 20V - 40V | |
| Maximum Input DC Voltage / Current | 58V / 9A | 58V / 9A | | 48V / 9A | |
| Maximum Input Power | 300W | 300W | | 300W | |
| Minimum Starting Voltage | Minimum Starting Voltage 20V 20V | | 20V | | |
| Compatible Wind Generators | WindStream Tech: SolarMill | | | | |
| AC Output | Data | | | | |
| Rated Output Power / Peak Output Power | 960W / 1150W | | | | |
| Minimum Output Power | 5W (Under Low Sunlight or Low Wind Speed) | | | | |
| Nominal Output Current (RMS) | 4A (RMS – Root Mean Square) | | | | |
| Nominal Output Voltage / Range | 240V (211V – 264V, Single Phase) | | | | |
| Nominal Frequency / Range | 60Hz (59.3 – 60.5) 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 | C -40°F to +149°F | |) +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 | 32cm x 24cm x 5.8cm 12.5" x | | 9.5" x 2.3" | |
| Weight | 6.5 kg 14. | | 14.25 lb | 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), CSA 107.1, FCC Part 15 Class A | | | | |
| Compatibility | 60-Cell and 72-Cell PV Solar Panels | | | | |
| DC Ground Fault Detector Interrupter (GFDI) | Built-In (MET) | | | | |
| Standard Warranty | 10 Years (Extended Warranty Available) | | | | |
| Enclosure Environmental Rating / Safety | Outdoor, NEMA 6 (IP67) / Transformer Isolated Circuits | | | | |

Made in U.S.A.