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

CyboInverter

- **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-1000K) can connect to 4 solar panels or DC wind generators and produce 1150W, 220V, 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-1000K Maximum CyboInverters per 20A Branch Circuit: 3-4

Made in U.S.A.

Technical Data of CI-Mini-1000K (Rev 3.1 - March 2015)

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 – 48V	20V – 48V	20V – 45V
Peak Power Performance Range	30V – 48V	30V – 48V	20V – 40V
Maximum Input DC Voltage / Current	48V / 9A	48V / 9A	48V / 9A
Maximum Input Power	300W	300W	300W
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)	4.36A (RMS – Root Mean Square)		
Nominal Output Voltage / Range	220V (193.6V – 242V, Single-Phase)		
Nominal Frequency / Range	60Hz (59.3 – 60.5) Hz		
Power Factor / Harmonic Distortion	>0.95 (THD < 4%, 2nd 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)		
Compatibility	60-Cell and 72-Cell PV Solar Panels		
DC Ground Fault Detector Interrupter (GFDI)	Built-In		
Standard Warranty	5 Years (Extended Warranty Available)		
Enclosure Environmental Rating / Safety	Outdoor, NEMA 6 (IP67) / Transformer Isolated Circuits		

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