

## Technical specification

### GridFree Micro AC Invertor DC-AC 1000W, 230/400V 3f, CE, YC1000

#### GF-YC1000

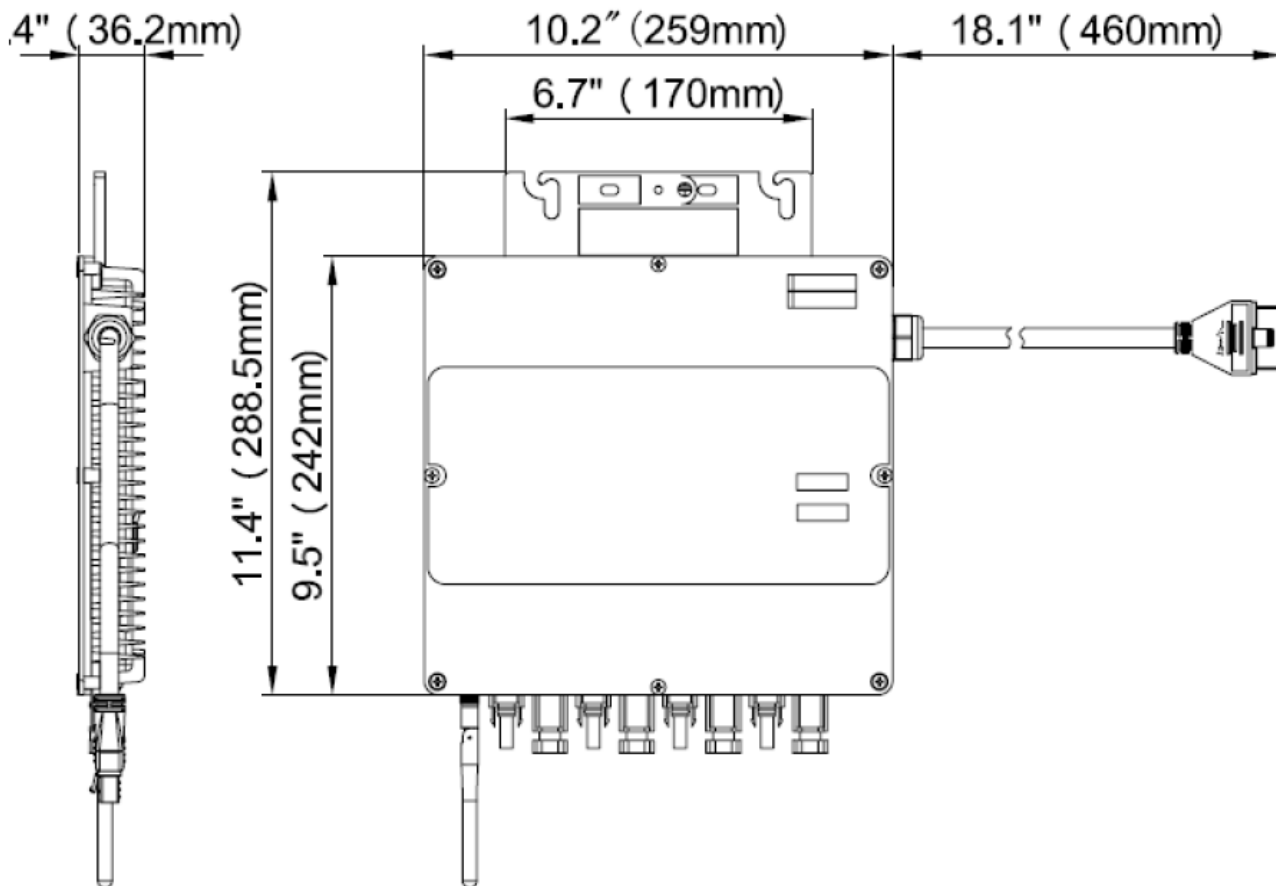
- ✓ Single unit connects up to four modules
- ✓ 900W Maximum AC output
- ✓ True 3-phase output
- ✓ ZigBee wireless communication and free module-level monitoring
- ✓ Up to 48 solar modules (60 or 72-cell) can be linked in single 20A circuit
- ✓ Integrated VDE relays



The YC1000 is the industry's first true 3-phase solar microinverter, handling commercial grid voltages of 230/400 with 900 watts maximum output, ZigBee communication and an integrated ground. Each YC1000 supports up to 4 solar modules.

Input Data (DC)		Specifications
Recommended PV Module Power (STC) Range		Up to 310 Wp (4 Module configuration) Up to 360 Wp (3 Module configuration)
MPPT Voltage Range		16 V-55 V
Optimum Voltage range		16 V-55 V
Maximum Input Voltage		60 V
Maximum Input Current		14.8 A x4
Output Data (AC)		
Maximum Output Power		900W
Nominal Output Voltage		3 phase 230/400 V – 50Hz
Nominal Output Current		1.3A x3
Nominal Output Frequency		50 Hz
Power Factor		>0.99
Total Harmonic Distortion		<3%
Maximum Units per Branch (20 A)		12 for 20 A X 3 Breaker / 48 Modules
Efficiency		
Max. Inverter Efficiency		95 %
CEC Weighted Efficiency		94.5 %
Nominal MPPT Efficiency		99.9 %
Night Power Consumption		300mW
Mechanical Data		
Operating Ambient Temperature Range		-40 °C to +65 °C
Storage Temperature Range		-40 °C to +85 °C
Dimensions (W x H x D)		259 mm x 242 mm x 36 mm
Weight		3.8 kg
AC Cable Maximum Current		20 A x 3
Connector type		MC4
Enclosure Rating		IP67
Cooling		Natural Convection – No Fans
Features & Compliance		
Communication (Inverter to ECU)		ZigBee (Wireless)
Monitoring		Module-level via EMA software
Transformer design		High frequency transformers, galvanically isolated
Safety and EMC Compliance		EN 62109-1; EN 62109-2; EN 61000-6-1; EN 61000-6-2; EN 6100-6-3; EN61000-6-4

## Dimensions



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