

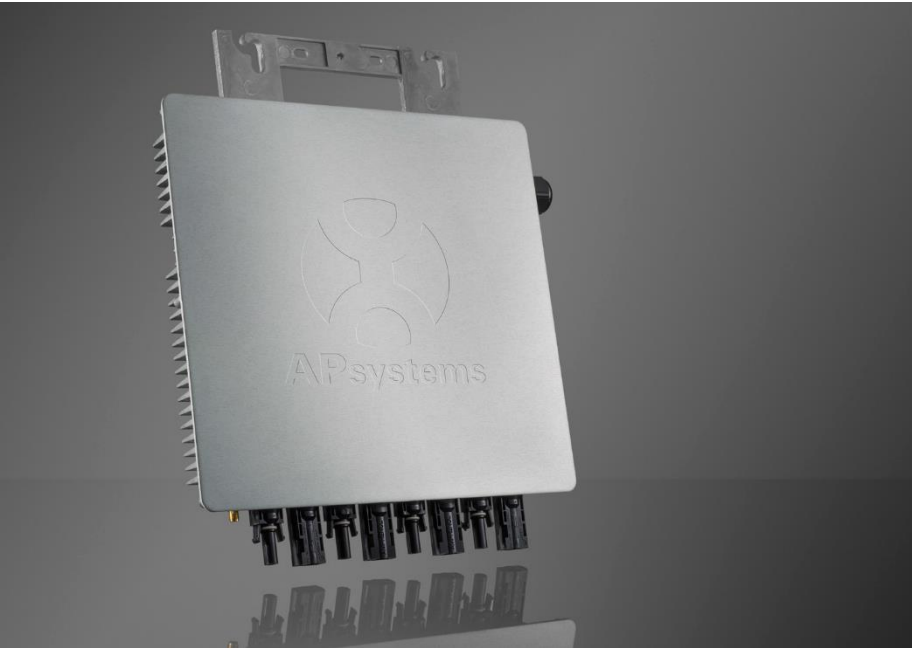
Leading the Industry in  
**Solar Microinverter Technology**

## YC1000-3

### Commercial Microinverter

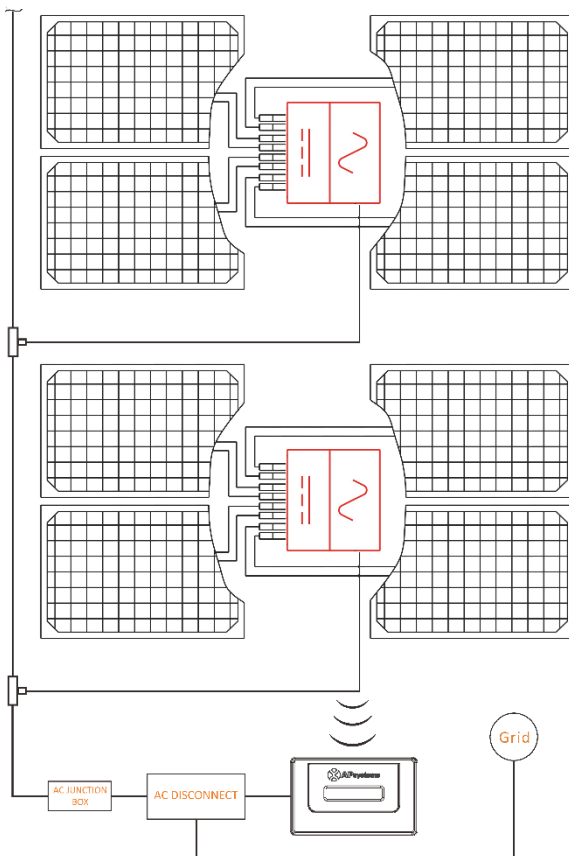
- Single unit connects up to four modules
- 900W Maximum AC output
- True 3-phase output
- ZigBee wireless communication and Free module-level monitoring
- Up to 48 solar modules (60 or 72-cell) can be linked in a single 20A circuit\*
- Integrated VDE relays

\*Please see YC1000 user manual on specifics for 230/400VAC.



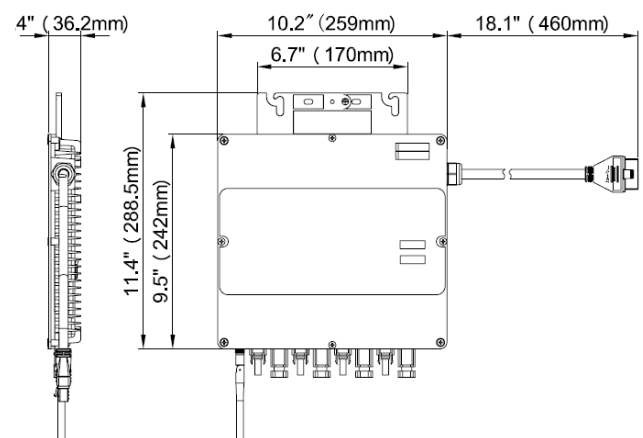
## World's first true 3-phase microinverter – only from APsystems

### WIRING SCHEMATIC



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.

### DIMENSIONS



# APsystems YC1000-3 Microinverter Datasheet

**Region** All European and MEA countries

**Models** YC-1000-3-FR\* or YC1000-3-EU\*\*

## Input Data (DC)

Recommended PV Module Power (STC) Range Up to 310 Wp ( 4 Module configuration)  
Up to 360 Wp ( 3 Module configuration)

MPPT Voltage Range 16V-55V

Operation Voltage Range 16V-55V

Maximum Input Voltage 60V

Maximum Input Current 14.8A x 4

## Output Data (AC)

Maximum Output Power 900W

Nominal Output Voltage 3 phase 230/400V- 50Hz

Nominal Output Current 1.3A x 3

Nominal Output Frequency 50Hz

Power Factor >0.99

Total Harmonic Distortion <3%

Maximum Units per Branch (20 A) 12 for 20A 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) 259mm X 242mm X 36mm

Weight 3.8kg

AC Cable Maximum Current 20A 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; EN61000-6-1; EN61000-6-2;  
EN61000-6-3; EN61000-6-4;

Grid Connection Compliance EN50438 ; VDE126-1-1/A1

Warranty 10 years standard ; 20 years optional

\*Preloaded with VDE 126-1-1/A1

\*\*Preloaded with EN50438

\*\*\*Energy Management Analysis

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Specifications subject to change without notice

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