

YC1000-3

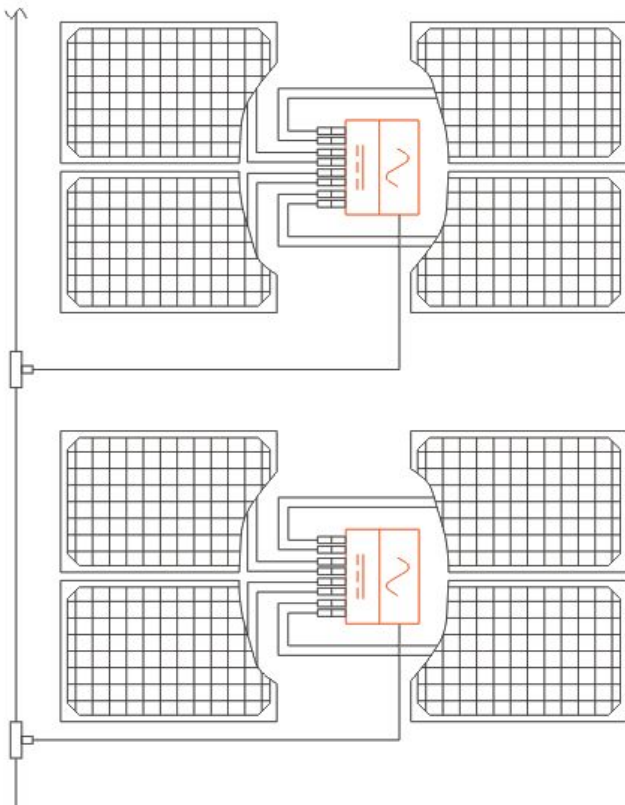
Commercial Microinverter

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

*Please see YC1000-3 user manual on specifics for 230/400VAC.

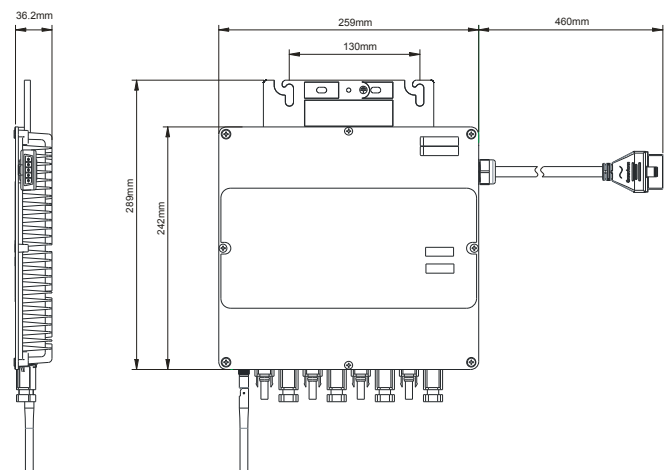
World's first true 3-phase microinverter – only from APsystems

WIRING SCHEMATIC



The YC1000-3 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 YC1000-3 supports up to 4 solar modules.

DIMENSIONS



APsystems YC1000-3 Microinverter Datasheet

Region

Australia, New Zealand

Model

YC1000-3-SAA

Input Data (DC)

| | |
|-------------------------|---------|
| MPPT Voltage Range | 16V-55V |
| Operation Voltage Range | 16V-55V |
| Maximum Input Voltage | 60V |
| Startup Voltage | 22V |
| Maximum Input Current | 14.8A×4 |

Output Data (AC)

| | |
|---------------------------------|------------------------|
| 3-Phase Grid Type | 230V/400V |
| Maximum Continuous Output Power | 900W |
| Peak Output Power | 1000W |
| Nominal Output Current | 1.30A×3 |
| Nominal Output Voltage | 230V×3 |
| Default Output Voltage Range | 200V-270V* |
| Extended Output Voltage Range | 149V-278V |
| Nominal Output Frequency | 50Hz |
| Default Output Frequency Range | 47.5Hz-50.5Hz* |
| Extended Output Frequency Range | 45.1Hz-54.9 Hz |
| Power Factor | >0.99 |
| Total Harmonic Distortion | <3% |
| Maximum Units per Branch | 12 for 20A×3 Breaker** |

Efficiency

| | |
|-------------------------|-------|
| Peak 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 × 242mm × 36mm |
| AC BUS Maximum Current | 20A |
| Weight | 3.8kg |
| Enclosure Rating | IP67 |
| Cooling | Natural Convection - No Fans |

Features & Compliance

| | |
|----------------------------|--|
| Communication | Zigbee |
| Transformer Design | High Frequency Transformers, Galvanically Isolated |
| Integrated Ground | The DC circuit meets the requirements for ungrounded PV arrays in NEC690.35. Equipment ground is provided by the PE in the AC cable. No additional ground is required. Ground fault protection (GFP) is integrated into the microinverter. |
| Safety Class Compliance | AS3100/IEC62109-1/IEC62109-2 |
| Grid Connection Compliance | AS 4777.2/AS 4777.3 |

* Programmable through ECU in field to meet customer need.

** Depending on the local regulations.

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Specifications subject to change without notice - please ensure you are using the most recent update found at www.APsystems.com

Suite 502, 8 Help Street, Chatswood NSW 2067 Australia | 61 (0)2 8034 6587 | APsystems.com