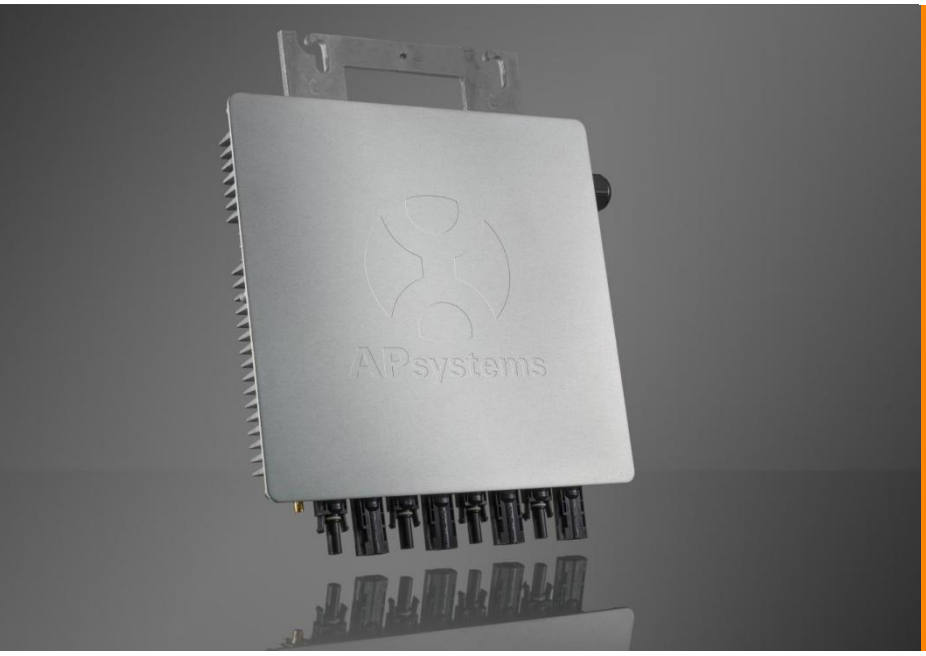
APsystems

Leading the Industry in
Solar Microinverter Technology



YC1000-3

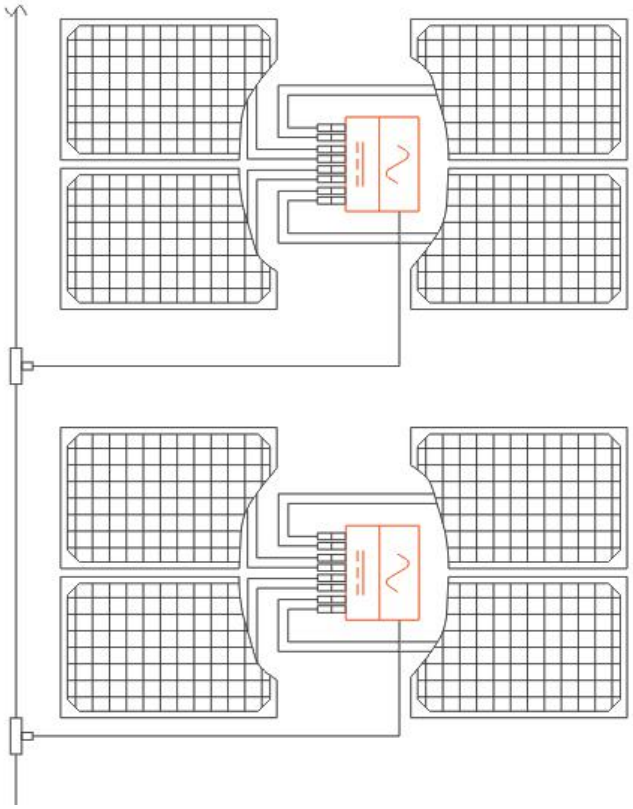
3-Phase Microinverter

- Single unit connects up to four modules
- Maximum 1130W 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 specifi cs for 230/400VAC.

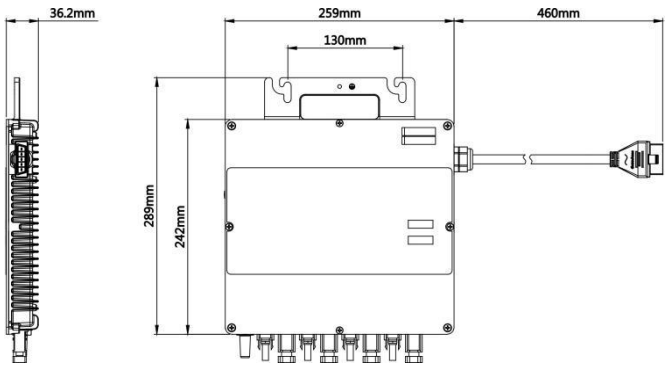
World's first true 3-phase microinverter – only from APsystems

WIRING SCHEMATIC



The YC1000-3 is the industry's first true 3-phase solar microinverter, handling commercial grid voltages of 230/400 with 1130 watts maximum output, ZigBee communication and an integrated ground. Each YC1000-3 supports up to 4 solar modules.

DIMENSIONS



(For Australia/New Zealand)

YC1000-3 3-Phase 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
Rated Output Power	900W
Maximum Output Power	1130W
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	3.5kg
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.

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

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