

## Leading the Industry in Solar Microinverter Technology

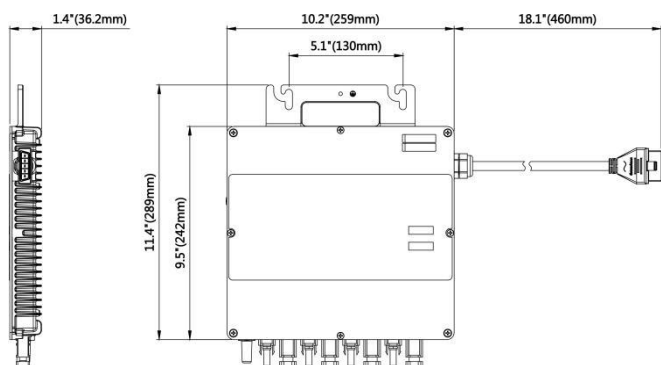
# YC1000-3

- Single unit connects up to four modules
- Maximum 1130W AC output
- True 3-phase (Wye) balanced output
- Wireless communication and monitoring
- Up to 8 microinverters can be connected on a single 15A circuit\*

\*Please see YC1000-3 user manual on specifics for 208VAC and 277/480VAC.

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

### DIMENSIONS



The YC1000-3 is the industry's first true 3-phase solar microinverter. Handling commercial grid voltages of 208Y/120V, 480Y/277V with 1130 watts as maximum output. Wireless communication and an integrated ground. Each YC1000-3 supports up to 4 solar modules.



# YC1000-3 3-Phase Microinverter Datasheet

## Region

USA / Canada

### Input Data (DC)

MPPT Voltage Range	16V-55V
PV Module Compatibility	60-cell / 120 split-cell and 72-cell / 144 split-cell PV modules, including bi-facial
Operation Voltage Range	16V-55V
Maximum Input Voltage	60V
Startup Voltage	22V
Maximum Input Current	14.8A×4

### Output Data (AC)

	208Y/120V	480Y/277V
3-Phase Grid Type	208Y/120V	480Y/277V
Rated Output Power	900W	900W
Maximum Output Power	1130W	1130W
Maximum Output Current	3.14A×3	1.35A×3
Nominal Output Voltage/Range	120V×3/105.6V-132V	277V×3/243.8V-304.7V
Adjustable Output Voltage Range	82V-152V	190V-350V
Nominal Output Frequency/Range	60Hz/59.3Hz-60.5Hz	60Hz/59.3Hz-60.5Hz
Adjustable Output Frequency Range	55.1Hz-64.9 Hz	55.1Hz-64.9 Hz
Maximum Output Fault Current (ac) and Duration	124.23 Apk, 12.10 ms of duration, 4.97 Arms, over 3 cycles	6.57 Apk, 40 ms of duration, 1.32 Arms, over 3 cycles
Power Factor	>0.99	>0.99
Total Harmonic Distortion	<3%	<3%
Maximum Units per Branch	3units per 15AX3 AC breaker	8units per 15AX3 AC breaker

### Efficiency

Peak Efficiency	95.5%
CEC Weighted Efficiency	95%
Nominal MPPT Efficiency	99.9%
Night Power Consumption	300mW

### Mechanical Data

Operating Ambient Temperature Range	-40°C to +65°C (-40° F to +149 ° F)
Storage Temperature Range	-40°C to +85°C (-40 °F to +185 °F)
Dimensions (W x H x D)	259mm × 242mm × 36mm (10.2" × 9.5" × 1.4")
AC Bus Cable	14AWG
Weight	3.5kg/7.7lbs
Enclosure Rating	Type 6
Cooling	Natural Convection - No Fans

### Features & Compliance

Communication (Inverter To ECU)	Wireless Zigbee, 2.4GHz
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.
Compliance	UL-1741* / IEEE-1547, FCC Part 15 Class B, ICES-003 Class B
NEC Compliance	NEC 2014, 2017 and 2020 690.12 for Rapid Shutdown / Module Level Shutdown, CAN / CSA-C22.2 NO. 107.1

\*Meets the standard requirements for Distributed Energy Resources (UL 1741) and identified with the CSA Listed Mark



Specifications subject to change without notice - please ensure you are using the most recent update found at [usa APsystems.com](http://usa.APsystems.com) or [canada APsystems.com](http://canada.APsystems.com).

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