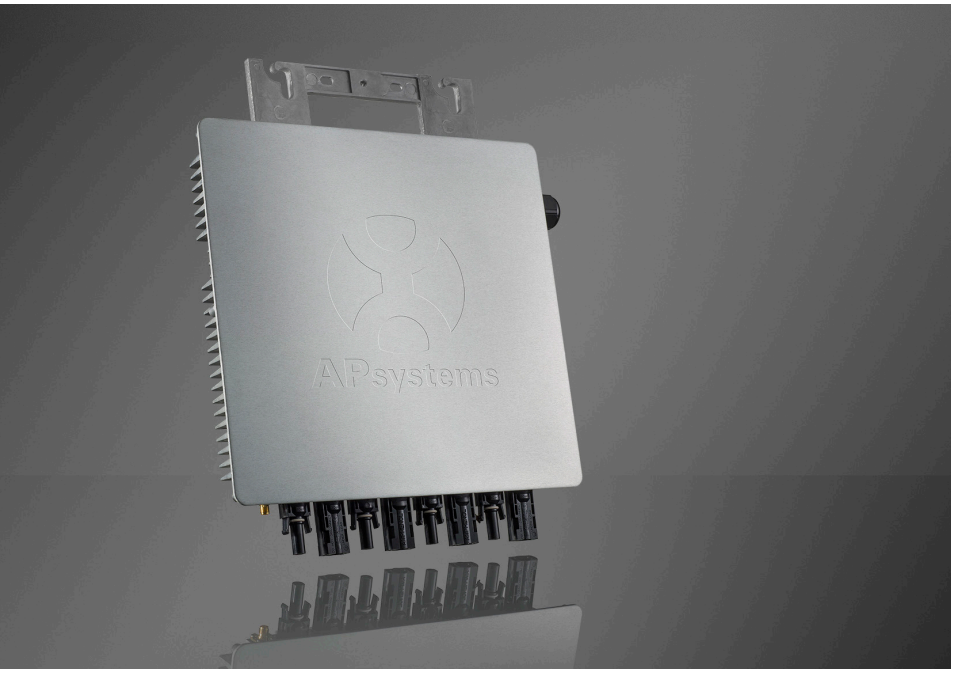
APsystems
ALTENERGY POWER

Leading the Industry in
Solar Microinverter Technology

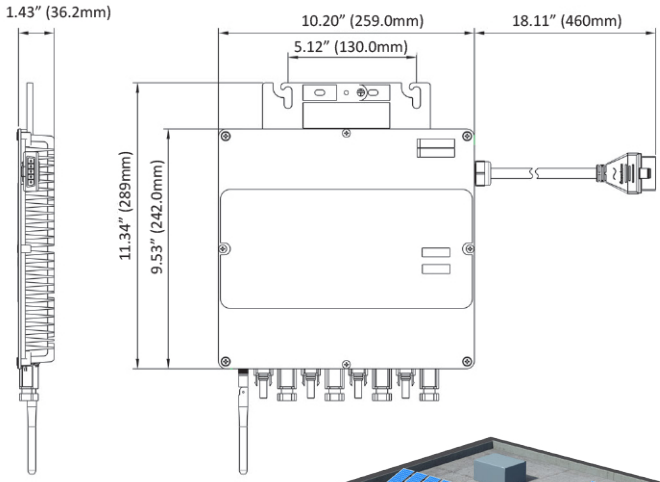


YC1000-3
Commercial Microinverter

- Single unit connects up to four PV modules
- 900W AC output
- True 3-phase output (phase-balanced & phase-monitored)
- 120Y/208V or 277Y/480V
- ZigBee wireless communication and monitoring
- Up to 44 solar modules (60 or 72-cell) can be linked on a three-pole 15A breaker*

*Max # of modules is based on inverter voltage - see reverse side for more info.

DIMENSIONS



The YC1000-3 is the industry's first true 3-phase (phase balanced & phase monitored) solar microinverter, handling commercial grid voltages of 120Y/208V or 277Y/480V with 900 watts AC maximum output, ZigBee communication and an integrated ground. Each YC1000-3 supports up to 4 PV modules.

Four-module configuration shown

APsystems YC1000-3 Microinverter Datasheet

INPUT DATA (DC) PER CHANNEL

	Accommodates 3 modules up to 365W or 4 modules up to 310W
MPPT Voltage Range	16-55V
Maximum Input Voltage	60V
Maximum Input Current	14.8A
Startup Voltage	22V

OUTPUT DATA (AC)

	277Y/480V	120Y/208V
Maximum Output Power	900W	900W
3-Phase Grid Type	277Y/480V	120Y/208V
Nominal Output Current	1.08Ax3	2.50Ax3
Nominal Output Voltage	277Yx3	120Yx3
Nominal Output Frequency	60Hz /59.3-60.5Hz*	60Hz /59.3-60.5Hz*
Power Factor	>0.99	>0.99
Total Harmonic Distortion	<3%	<3%
Maximum Units per Branch	8 per 15Ax3-pole Breaker	4 per 15Ax3-pole 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°F to +149°F (-40°C to +65°C)
Storage Temperature Range	-40°F to +185°F (-40°C to +85°C)
Dimensions (W x H x D)	10.2” X 9.5” X 1.4” (259mm X 242mm X 36mm)
Weight	7.7lbs (3.5kg)
Enclosure rating	NEMA 6
Cooling	Natural Convection - No Fans
AC Cable	14 AWG

FEATURES

Communication	ZigBee (wireless)
Integrated Ground Fault Protection (GFP)	The DC circuit meets the requirements for ungrounded PV arrays in NEC690.35. No additional ground is required. Ground fault protection (GFP) is integrated into microinverter.
Emissions & Immunity (EMC) Compliance	FCC Part 15; ANSI C63.4; ICES-003
Safety & Grid Connection Compliance	IEEE1547, CSA C22.2 No. 107.1-01, NEC 2014 690.12, NEC 2017 690.12 ***
Warranty	10 years standard, extendable to 25 years

* Programmable per customer and utility requirements.
***Meets the standard requirements for Distributed Energy Resources (UL 1741) and identified with the ETL Listed Mark.

Intertek

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

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