APsystems
ALTENERGY POWER

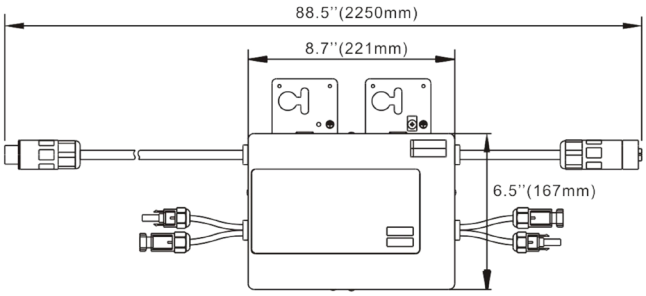
Leading the Industry in
Solar Microinverter Technology



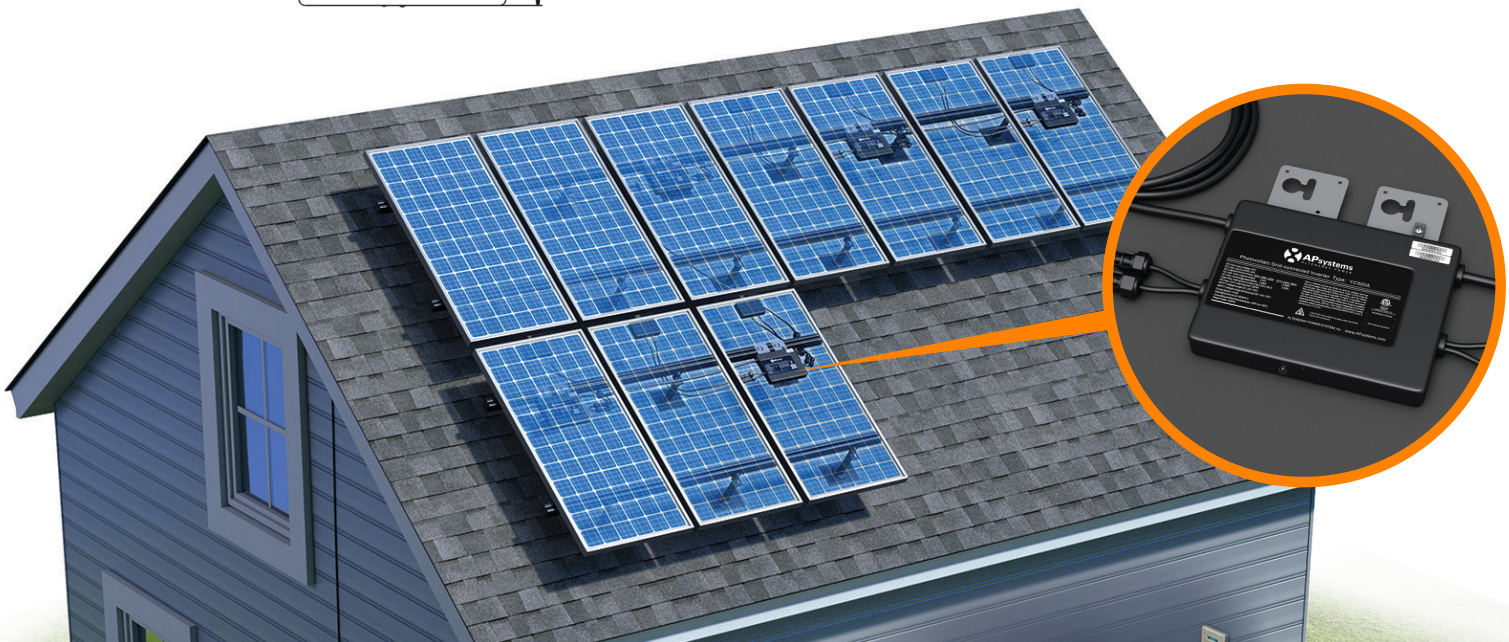
YC500A
Microinverter

- Single unit connects two solar modules
- Maximum output power 500W
- Individual MPPT for each module
- Up to 14 solar modules (7x YC500s) in a string with a 20A breaker

DIMENSIONS



Our flagship product, the APsystems YC500A is a grid-tied microinverter with intelligent networking and monitoring systems to ensure maximum efficiency. Highly dependable and cost effective, the YC500A can accommodate PV modules up to 365W with dual MPPT but is ideally suited for modules from 280 to 310W. Half the inverters and half the installation means real cost savings for residential and commercial customers.



APsystems YC500A Microinverter Datasheet

INPUT DATA (DC)

MPPT Voltage Range	22-45V
Maximum Input Voltage	55V
Maximum Input Current	12A X 2

OUTPUT DATA (AC)

Rated Output Power	500W
Maximum Output Current	2.08A @ 240V 2.4A @208V
Nominal Output Voltage/Range - 240V	240V/211V-264V*
Nominal Output Voltage/Range - 208V	208V/183V-229V*
Nominal Output Frequency/Range	60Hz/ 59.3-60.5Hz***
Power Factor	>0.99
Total Harmonic Distortion	<3%
Maximum Units Per Branch	7 per 20A @ 240V 6 per 20A @ 208V

EFFICIENCY

Peak Efficiency	95.5%
CEC Weighted Efficiency**	95%
Nominal MPP Tracking Efficiency	99.5%

MECHANICAL DATA

Storage Temperature Range	-40°F to +185°F (-40°C to +85°C)
Operating Temperature Range	-40°F to +149°F (-40°C to +65°C)
Dimensions (WxHxD) inches	8.75” x 6.5” x 1.1”
Dimensions (WxHxD) mm	221mm x 167mm x 29mm
Weight	5.5 lbs (2.5kg)
Enclosure Rating	NEMA 6
Cooling	Natural Convection - No Fans

FEATURES & COMPLIANCE

Communication	Power line (PLC)
Warranty	10 years standard, extendable to 25 years
Emissions & Immunity (EMC) Compliance	FCC PART 15, ANSI C63.4 2003, ICES-003
Safety Class Compliance	
Grid Connection Compliance	IEEE 1547 UL 1741 , CSA C22.2, No. 107.1-01, NEC2014 690.12

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

*Default AC output is 240V mode. Programmable to 208V mode.

**CEC registered as Altenergy Power System Inc.

***Programmable per customer and utility requirements. All settings UL approved.

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600 Ericksen Ave NE, Suite 200, Seattle, WA 98110 | 844.666.7035 | **APsystems.com**

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