



Leading the Industry in
Solar Microinverter Technology



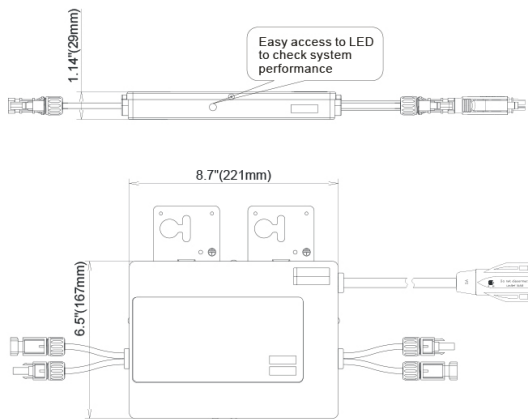
YC500i

with EnergyMax™

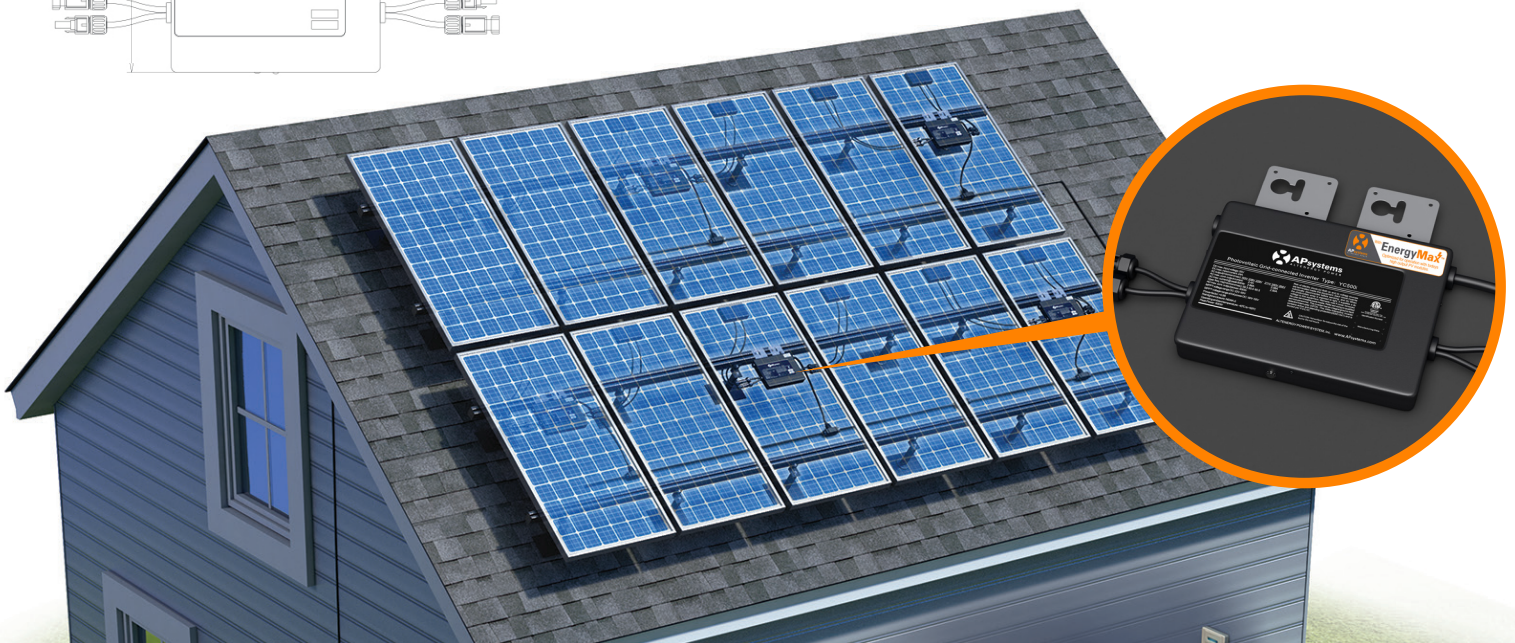
High output microinverter with
integrated ground

- Single unit connects two solar modules
- Integrated ground
- Peak output power 548W
- Individual MPPT for each module
- PLC communication & free monitoring
- Ideal for today's high output PV modules

DIMENSIONS



The APsystems YC500i with EnergyMax™ is a grid-tied microinverter with intelligent networking and monitoring systems to ensure maximum efficiency. Highly dependable and cost effective, the YC500i with EnergyMax™ is optimized to accommodate today's high output PV modules effectively with up to 548W output and dual MPPT. An integrated ground allows for rapid installation for installers who prefer trunk cable architecture. Half the inverters and half the installation time means real cost savings for residential and commercial customers.



APsystems YC500i EnergyMax™ Microinverter Datasheet

INPUT DATA (DC)

MPPT Voltage Range	22-45V
Operation Voltage Range	16V-52V
Maximum Input Voltage	55V
Startup Voltage	22V
Maximum Input Current	12A X 2

OUTPUT DATA (AC)

Nominal Output Voltage	208V*	240V*
Peak Output Power	548W	548W
Maximum Continuous Output Power	500W	500W
Maximum Continuous Output Current	2.4A	2.08A
Default Output Voltage Range	183V-229V**	211V-264V**
Peak Output Current	2.63A	2.28A
Nominal Output Frequency	60Hz	
Default Output Frequency Range	59.3Hz-60.5Hz**	
Maximum Units Per Branch	6 for 20A Breaker	7 for 20A Breaker

EFFICIENCY

Peak Efficiency	95.5%
CEC Weighted Efficiency	95%
Nominal MPPT Efficiency	99.5%
Night Power Consumption	120mW

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 (WxHxD) inches	8.75" x 6.5" x 1.1"
Dimensions (WxHxD) mm	221mm x 167mm x 29mm
Weight	5.5 lbs (2.5kg)
AC Bus (trunk cable)	12AWG
Enclosure Rating	NEMA 6
Cooling	Natural Convection - No Fans

FEATURES & COMPLIANCE

Communication (Inverter to ECU)	Power line Communication
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 ***
Monitoring	Via EMA Software

*The default AC output is 240V mode. Programmable to 208V mode.

**Programmable per customer and utility requirements.

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



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

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