

Leading the Industry in **Solar Microinverter Technology**

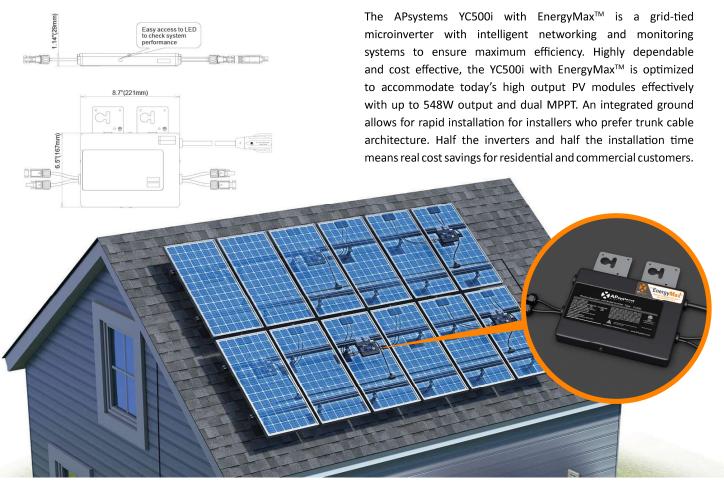


YC500i

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



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
Nominal 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	59.3H	z-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

-40°F to +149°F (-40°C to +65°C)
-40°F to +185°F (-40°C to +85°C)
8.75" x 6.5" x 1.1"
221mm x 167mm x 29mm
5.5 lbs (2.5kg)
12AWG
NEMA 6
Natural Convection - No Fans

FEATURES & COMPLIANCE

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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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