



# YC500A Microinverter Datasheet

## Model

YC500A-SAA

## Input Data (DC)

MPPT Voltage Range	22V-45V
Operation Voltage Range	16V-52V
Maximum Input Voltage	55V
Startup Voltage	22V
Maximum Input Current	10.5A x 2

## Output Data (AC)

Maximum Output Power	530W
Nominal Output Voltage	230V
Maximum Continuous Output Current	2.30A
Default Output Voltage Range	200V-270V*
Extended Output Voltage Range	149V-278V
Nominal Output Frequency	50Hz
Default Output Frequency Range	47.5Hz-50.5Hz*
Extended Output Frequency Range	45.1Hz -54.9Hz
Power Factor	>0.99
Total Harmonic Distortion	<3%
Maximum Units per Branch	9 for 20 Breaker** / 11 for 25A Breaker**

## Efficiency

Max. Inverter Efficiency	95.5%
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 (W x H x D)	221mm x 167mm x 29mm (8.7" x 6.6" x 1.1")
Weight	5.5lbs/2.5kg
Enclosure Rating	IP67
Cooling	Natural Convection - No Fans

## Features & Compliance

Communication	Power Line Communication
Monitoring	Via EMA Software
Safety Class Compliance	EN 62109-1; EN 62109-2;AS3100
Grid Connection Compliance	AS 4777.2/AS 4777.3

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

\*Programmable through ECU to meet customer need.  
\*\*Depending on the local regulations.

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