



Leading the Industry in
Solar Microinverter Technology

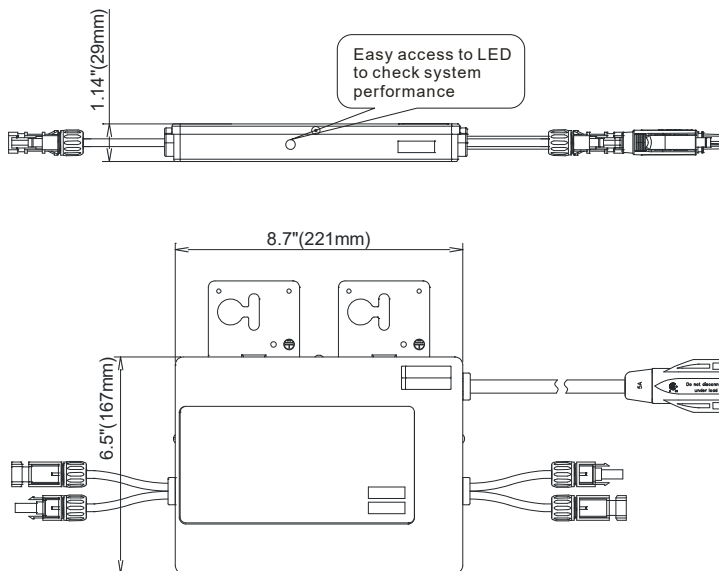


YC500I

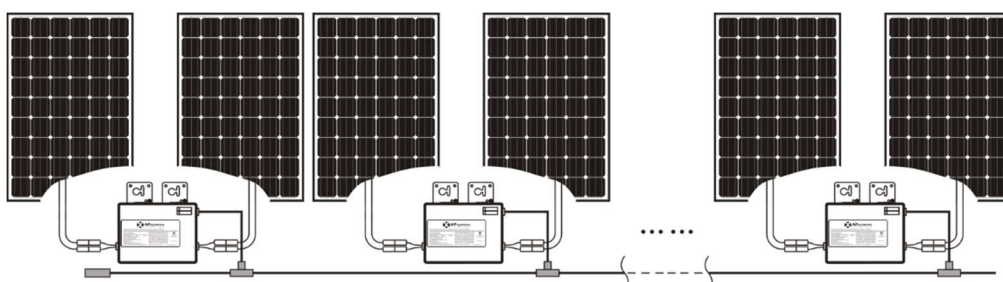
Microinverters with Unmatched Competitvity

- Single unit connects two solar modules
- Maximum output power 500W
- Individual MPPT for each module
- Rated up to 310Wp per module
- PLC communication and Free monitoring
- Integrated electromechanical relays

DIMENSIONS



Our flagship product, the APsystems YC500I is a grid-tied microinverter with intelligent networking and monitoring systems to ensure maximum efficiency. Highly dependable and cost effective, the YC500I handles up to 310Wp modules with negligible clipping, delivering 250W AC per module with dual MPPT. Half the inverters and half the installation means real cost savings for residential and commercial customers.



APsystems YC500I Microinverter Datasheet

Region All European countries

Model YC500I-EU*

Input Data (DC)

Recommended PV Module Power (STC)Range	180Wp-310Wp / 60 and 72-cell PV modules
MPPT Voltage Range	22V-45V
Operation Voltage Range	16V-52V
Maximum Input Voltage	55V
Maximum Input Current	10.5Ax 2
Maximum DC Short Circuit Current	15A

Output Data (AC)

Maximum Output Power	500W
Nominal Output Voltage	230V
Nominal Output Current	2.17A
Nominal Output Frequency	50Hz
Power Factor	>0.99
Total Harmonic Distortion	<3%
Maximum Units per Branch (20 A)	7 / 14 modules

Efficiency

Max. Inverter Efficiency	95.5%
Night Power Consumption	120mW

Mechanical Data

Operating Ambient Temperature Range	-40 °C to +65 °C
Storage Temperature Range	-40 °C to +85 °C
Dimensions (W x H x D)	221mm X 167mm X 29mm
Weight	2.5kg
AC Cable Maximum Current	20A
Connector type	MC4
Enclosure Rating	IP67
Cooling	Natural Convection - No fans

Features & Compliance

Communication (Inverter to ECU)	Power line communication
Monitoring	Via EMA** software
Transformer design	High frequency transformers, galvanically isolated
Safety and EMC Compliance	EN 62109-1; EN 62109-2; EN61000-6-1; EN61000-6-2; EN61000-6-3; EN61000-6-4;
Grid Connection Compliance	EN50438 ; VDE126-1-1/A1 ; VDE-AR-N 4105 ; G83 issue 2
Warranty	10 years standard ; 20 years optional

*Programmable through ECU to meet local grid requirements.

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**Energy Management Analysis

Specifications subject to change without notice

Please ensure you are using the most recent update found at www.APsystems.com

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