

# APsystems YC250A/I Microinverter Datasheet

## Input Data (DC)

Recommended PV Module Power (STC)Range	180W-310W
MPPT Voltage Range	22V-45V
Operation Voltage Range	16V-52V
Maximum Input Voltage	55V
Startup Voltage	22V
Maximum Input Current	10.5A

## Output Data (AC)

Nominal Output Voltage	127V	220V
Maximum Continuous Output Power	250W	250W
Nominal Output Current	1.97A	1.14A
Default Output Voltage Range	95V-155V*	181V-264V*
Extended Output Voltage Range	82V-155V	181V-298V
Nominal Output Frequency	60Hz	
Default Output Frequency Range	57Hz-62Hz*	
Extended Output Frequency Range	55.1Hz -64.9Hz	
Power Factor	>0.99	
Total Harmonic Distortion	<3%	
Maximum Units per Branch	8 for 20A Breaker** 10 for 25A Breaker**	14 for 20A Breaker** 17 for 25A Breaker**

## Efficiency

Peak Efficiency	95.5% (HF Transformer Isolation)
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)	160mm x 150mm x 29mm (6.3" x 5.9" x 1.1")	
Weight	3.3lbs/1.5kg	
AC CABLE	12AWG	
Enclosure Rating	NEMA 4X	NEMA 6
Cooling	Natural Convection	

## Features & Compliance

Communication	Power line	
Design Lifetime	25yrs	
Monitoring	Life monitoring via EMA software	
Compliance	NOM	FCC Part15; ANSIC63.4;ICES-003; UL1741,CSA C22.2 No.107.1-01;IEEE1547

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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