

APsystems YC500A/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 x 2	12A x 2

Output Data (AC)

Nominal Output Voltage	127V	220V
Maximum Continuous Output Power	450W	500W
Nominal Output Current	3.54A	2.27A
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	4 for 20A Breaker** 5 for 25A Breaker**	7 for 20A Breaker** 8 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)	221mm x 167mm x 29mm (8.7" x 6.6" x 1.1")	
Weight	5.5lbs/2.5kg	
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

*Programmable through ECU to meet customer need.

** Depending on the local regulations.

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