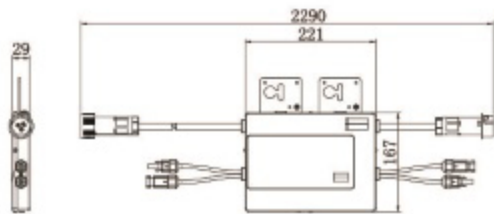




Introduction

- Single unit connects two modules, Maximum output power 500W
- Individual MPPT for each module
- Peak efficiency 95.5%



YC500

- ✘ YC500-SAA
- ✘ YC500-EU
- ✘ YC500-MX
- ✘ YC500-CN
- ✘ YC500-NA



Advantages

- Safety** No DC high voltage, no personal injury and fire hazard
- Flexibility** Adapted anywhere, single cable accesses
- Reliability** Design lifetime 25 years
- Cost saving** Simplified design, no DC elements, labor saving
- Smart** MLPM, worldwide on-line system troubleshooting
- Productivity** Up to 25% more energy harvest



YC500 Microinverter

TYPE	YC500-SAA Australia	YC500-CN China	YC500-EU Europe	YC500-NA USA	YC500-MX Mexico
Input Data (DC)					
Recommended PV module power (STC) range (W)	180~310	180~310	180~310	180~310	180~310
MPPT voltage range (V)			22~45		
Operation voltage range (V)			12~55		
Maximum input voltage (V)			55		
Startup voltage (V)			20		
Maximum input current (A)	10.5 X 2	12 X 2	10.5 X 2	12 X 2	10.5 X 2
Output Data (AC)					
Maximum output power (W)	500	500	500	500	450
Maximum output current (A)	2.17	2.27	2.17	2.4	2.08
Maximum output voltage (V)	230/200-270	220/187-270	230/200-270	208/183-229	240/211-264
Nominal output frequency (Hz)	50/47.5-50.5	50/47.5-50.5	50/47.5-50.5	60/59.3-60.5	60/57-62
Power factor			>0.99		
Total harmonic distortion			<3%		
Maximum units per branch	7/20A breaker 9/25A breaker	11	7/20A breaker 9/25A breaker	7/20A breaker 6/25A breaker	9/20A breaker 8/25A breaker 4/20A breaker 5/25A breaker
Efficiency					
Peak inverter efficiency			95.5%		
Mechanical Data					
Operating ambient temperature (°C)			-40 ~ +65		
Operating internal temperature (°C)			-40 ~ +85		
Storage temperature range (°C)			-40 ~ +85		
Dimensions (W x H x D, mm)			221 x 167 x 29		
Weight (kg)			2.5		
Enclosure rating	IP65	IP65	IP65	NEMA 4X	NEMA 4X
Cooling	Nature Convection				
Features & Compliance					
Communication	Powerline				
Design lifetime (year)	25				
Emissions & immunity (EMC) compliance	EN61000-6-3 : 2007	CNCA/CTS0004-2009A	EN 61000-1/2/3/4	FCC PART 15,ANSI C63.4IECS-003	
Safety class compliance	IEC 62109-1/2 AS3100	IEC2109-1:2010CNCA/CTS004:2009A	EN 62109-1&2	UL Std.1741,CSA Std.C22.2 NO.107.1-01	NOM
Grid connection compliance	AS4777.2:2005 AS4777.3:2005	CNCA/CTS0004-2009A	EN50438:2007, VDE4105 (Except sections 6.5 and 8.3.1), VDE0126-1-1/A1 and G83	IEEE 1547	
Programmable through ECU to meet customer need.					

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