

# YC500 Microinverter

TYPE	YC500-SAA Australia	YC500-CN China	YC500-EU Europe	YC500-NA USA	YC500-MX Mexico
<b>Input Data (DC)</b>					
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)			16~45		
Maximum input voltage (V)			55		
Startup voltage (V)			16		
Maximum input current (A)	12 X 2	12 X 2	10.5 X 2	10.5 X 2	10.5 X 2
<b>Output Data (AC)</b>					
Maximum output power (W)	500	500	500	450	450
Maximum output current (A)	2.17	2.27	2.17	1.87	3.54
Maximum output voltage (V)	230/180-270 <sup>1</sup>	220/180-270 <sup>1</sup>	230/207-253 <sup>1</sup>	240/211-264 <sup>1</sup>	127/95-155 <sup>1</sup>
Nominal output frequency (Hz)	50/45-55 <sup>1</sup>	50/45.5-54.5 <sup>1</sup>	50/47-53 <sup>1</sup>	60/59.3-60.5 <sup>1</sup>	60/55-65 <sup>1</sup>
Power factor			>0.99		
Total harmonic distortion			<3%		
Maximum units per branch	11	11	7	8/10	4/5
<b>Efficiency</b>					
Peak inverter efficiency			95.5%		
<b>Mechanical Data</b>					
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)			220 x 160 x 29		
Weight (kg)			2.5		
Enclosure rating	IP65	IP65	IP65	NEMA 3R	NEMA 3R
Cooling			Nature Convection		
<b>Features &amp; Compliance</b>					
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	AS/NZS 3100:2009	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	EN 50438	IEEE 1547	

Programmable through ECU to meet customer need.

## APS America

Add: 19925 Stevens Creek Blvd, Suite 100, Cupertino, CA 95014  
Tel: 01 408 973 7888  
Washington office: 1015 Hostmark St.Suite 104 Poulsob, WA 98370  
Tel: 01 206 855 5100

## APS Australia

Add: 6/11-17 Banks Street, Mays Hill, NSW 2145,Australia  
Tel: +61 2 9633 3478

## APS Jiaxing China

Add: No. 1, Yatai Road, Nanhu District, Jiaxing, Zhejiang  
Tel: +86 573 8398 6967

## APS Shanghai China

Add: B403 No. 188, Zhangyang Road, Pudong, Shanghai  
Tel: +86 21 3392 8205

## APS Beijing China

Add: Room 505, No. 10 Building, Jianwai SOHO, No. 39 East Sanhuan zhong Road, Chaoyang District, Beijing.  
Tel: +86 010 5266 5807

24-hour Hotline: 400-100-8470  
[info@altenergy-power.com](mailto:info@altenergy-power.com)

