

# APsystems YC250, YC500 & YC1000 Microinverter Limited Warranty Australia

**Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.**

The benefits under this Limited Warranty are in addition to other rights and remedies under a law in relation to the Product.

The YC250, YC500 and YC1000 Microinverters (the "Product") supplied by Altenergy Power System Australia PTY LTD. ("APsystems") are designed to withstand normal operating conditions when used for their originally intended purpose in compliance with the APsystems User Manual supplied with the system. This APsystems Limited Warranty ("Limited Warranty") covers Defective Products for a period of ten (10) years from the date of original purchase of the Product from APsystems (the "Warranty Period"). A Product is defective if it is inoperable because of defects in material and workmanship, provided that APsystems, through inspection, establishes the existence of that defect ("Defective Product"). To obtain service under this Limited Warranty, the holder of the Warranty must comply with the Return Merchandise Authorization ("RMA") procedures, which can be found at [www.APsystems.com](http://www.APsystems.com).

During the Warranty Period, APsystems will, at its option, either (1) repair or replace the Defective Product free of charge, or (2) provide a refund to the holder of the Warranty of an amount equal to the actual value of the Defective Product at the time of the discovery of the defect. APsystems may, at its option, use new and/or reconditioned parts, and/or parts of the original or a subsequent design, in repairing or replacing the Defective Product. If APsystems repairs or replaces the Defective Product, APsystems will also cover the cost of shipping the replacement Product from APsystems to the customer. This Limited Warranty does not cover shipping cost of the Product to APsystems, or labor costs related to removing the Defective Product or re-installing the repaired or replacement Product, or any shipping damage. If APsystems repairs or replaces a Defective Product, the Limited Warranty continues on the repaired or replacement Product for the remainder of the original Warranty Period.

The Limited Warranty does not apply to, and APsystems will not be responsible for, any defect in, or damage to, any Product that (1) has been moved from its original installation location, or (2) has been disassembled, tampered with, or modified in any way, or (3) has been misused, neglected, improperly installed, or used under conditions for which the product was not designed to be used or used differently than outlined in the APsystems User Manual, or (4) has been subjected to fire, water, corrosion, infestations, or input voltage outside the parameters listed in the Product specifications, whether from the grid, generators, or lightning strikes, or (5) has been impacted by incidental or consequential damage caused by other components of the electrical system within which it is installed, or (6) has been subject to any attempt to alter or remove the original identification markings (including trademark, model number, or serial number). This Limited Warranty does not cover costs related to the removal, installation or troubleshooting of any components of the customer's electrical systems.

During the Warranty Period, this Limited Warranty may be transferred to subsequent owners of the Product upon completion of a "Warranty Transfer Form" available from the APsystems website, and payment of the nominal transfer fee as shown on that form.

THIS LIMITED WARRANTY IS THE SOLE AND EXCLUSIVE WARRANTY GIVEN BY ALTENERGY POWER SYSTEM INC. AND ITS AFFILIATES, AND, WHERE PERMITTED BY LAW, IS MADE EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, STATUTORY OR OTHERWISE, INCLUDING, WITHOUT LIMITATION, WARRANTIES OF TITLE, QUALITY, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT, OR WARRANTIES AS TO THE ACCURACY, SUFFICIENCY, OR SUITABILITY OF ANY TECHNICAL OR OTHER INFORMATION PROVIDED IN MANUALS OR OTHER DOCUMENTATION. IN NO EVENT WILL APsystems BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES, LOSSES, COSTS, OR EXPENSES, HOWEVER ARISING, WHETHER IN CONTRACT OR TORT, INCLUDING WITHOUT LIMITATION ANY ECONOMIC LOSSES OF ANY KIND, ANY LOSS OR DAMAGE TO PROPERTY, OR ANY PERSONAL INJURY.

Some jurisdictions do not allow limitations or exclusions on implied warranties or on the duration of an implied warranty or on the limitation or exclusion of certain damages, so the above limitation(s) or exclusion(s) may not apply. This Limited Warranty gives the customer specific legal rights, and the customer may have other rights that may vary from jurisdiction to jurisdiction.

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Authorized Signature



# APS - Microinverter Solar Technology



## ABOUT APS

At APS we offer the very latest powerful microinverter technology. Our microinverter solar solution combines highly-efficient power inversion with a user-friendly monitoring interlace to laring you reliable: intelligent PV system. Founded in 2009 in Silicon Valley, APS is a forerunner in the development of solar photovoltaic microinverter technology.

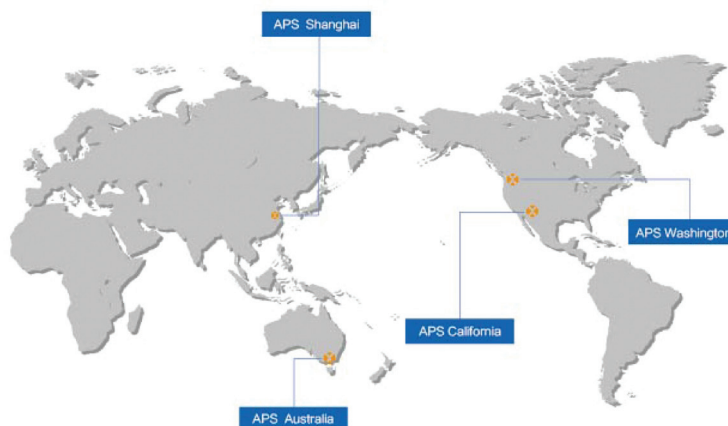
## AN ENERGETIC GOAL

At APS we see the power in solar energy. Our goal is to bring simple, accessible solar solutions to the marketplace, improving the efficiency and reliability of solar power systems through our innovative products. APS brings you powerful solutions for a greener world.

## OUR TECHNOLOGY

The APS Microinverter solar solution combines three cutting-edge components to offer the most efficient and reliable system on the market. APS micro inverter systems use a monitoring device to display system performance information. It collects data through the house AC cabling. This device is network ready with Ethernet port.

Basic functions such as output, kWh per day and faults are displayed on screen of device and do not require Ethernet connection.

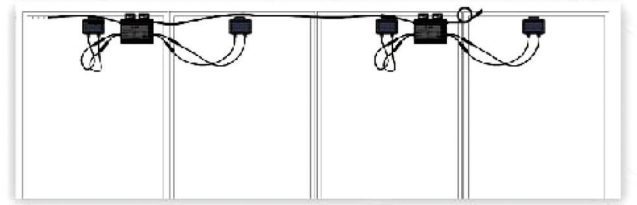
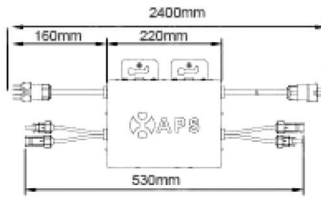


TYPE	YC250-SAA	YC500-SAA
<b>Input Data (DC)</b>		
Recommend PV module power (STC) range (W)	180-280	180-280
MPPT voltage range (V)	22-45	22-45
Max input voltage (V)	55	55
Max input current (A)	12	12x2
<b>Output Data (AC)</b>		
Max output power (W)	500	500
Max output current (A)	1.09	2.17
Nominal output voltage/range (V)	230/200-270 <sup>1</sup>	230/200-270 <sup>1</sup>
Nominal output frequency/range (Hz)	50.0/49.5-50.2 <sup>1</sup>	50.0/49.5-50.2 <sup>1</sup>
Power factor	>0.99	>0.99
Total harmonic distortion	>3%	>3%
<b>Efficiency</b>		
Peak inverter efficiency	95.0%	95.0%
CEC weighted efficiency	94.0%	94.0%
Nominal MPP tracking efficiency	99.0%	99.0%
<b>Mechanical Data</b>		
Operating temperature range ( °C )	-40- +65	-40- +65
Storage temperature range ( °C )	-40- +85	-40- +85
Dimensions (WxHxD)	160mmx150mmx29mm	160mmx150mmx29mm
Weight (kg)	1.5	2.5
Enclosure rating	IP65	IP65
Cooling	Natural Convection	Natural Convection
<b>Features &amp; Compliance</b>		
Communication	Powerline	Powerline
Warranty	10 years	10 years
Emissions & immunity (EMC) compliance	C-tick	C-tick
Safety class compliance	ASNZS-3100:2009	ASNZS-3100:2009
Grid connection compliance	AS4777.2:2005	AS4777.2:2005
<sup>1</sup> Programmable to meet customer need		



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## YC500A ( for 2 pairs of DC input )



### Features

- Maximum output power: 500W
- Individual MPPT for each panel
- Peak efficiency: 95.5%
- Dimensions (WxHxD): 220mmx160mmx29mm
- Weight: 2.5kg

### APS Communicator

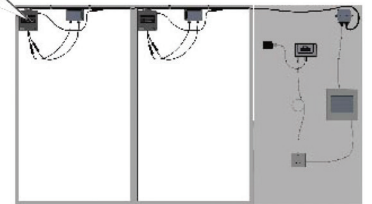
The APS Communicator, our state of the art Energy Communication Unit (ECU) is the information gateway for microinverters, collecting module performance data from each individual microinverter, and requiring only a single power cable for both power and data transmission.



### AC Module



Same as 500W models install on rail only.



Model: ECU	
<b>Communication Interface</b>	
Powerline	APS Proprietary
Ethernet	210/100M Auto-sensing, Auto-negotiation
RS232	Standard
GPRS with USB interface	Optional
<b>Power Requirements</b>	
AC outlet	110-240Vac, 50-60Hz
Power consumption	2.5W
<b>Mechanical Data</b>	
Dimension (WxHxD)	180mmx110mmx40mm
Weight	0.3kg
Ambient Temperature Range	-40c-+85c
Cooling	Nature Convection-no fans
Enclosure environmental rating	95.0%
<b>Features</b>	
Standard warranty term	3 years

