

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.

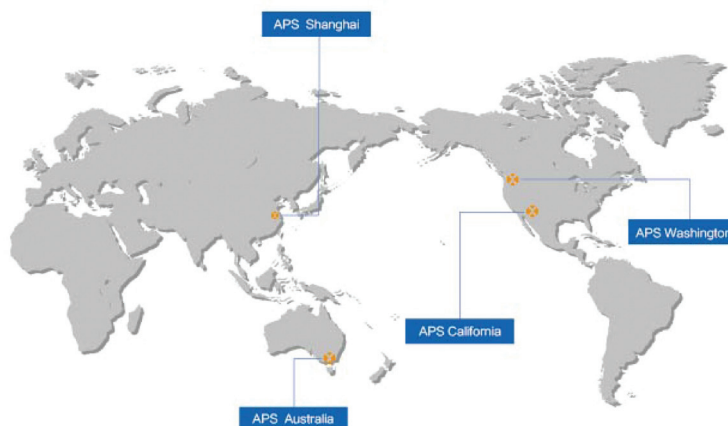
AN ENERGETIC GOAL

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.

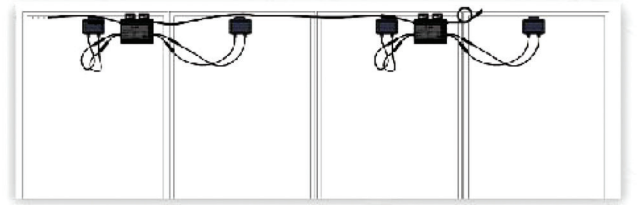
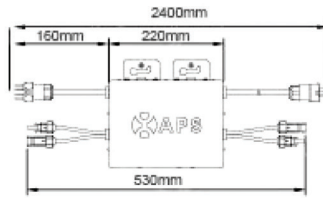


TYPE	YC250-SAA	YC500-SAA
Input Data (DC)		
Recommend PV module power (STC) range (W)	180-280	180-280
MPPT voltage range (V)	22-45	22-45
Max input voltage (V)	55	55
Max input current (A)	12	12x2
Output Data (AC)		
Max output power (W)	500	500
Max output current (A)	1.09	2.17
Nominal output voltage/range (V)	230/200-270 ¹	230/200-270 ¹
Nominal output frequency/range (Hz)	50.0/49.5-50.2 ¹	50.0/49.5-50.2 ¹
Power factor	>0.99	>0.99
Total harmonic distortion	>3%	>3%
Efficiency		
Peak inverter efficiency	95.0%	95.0%
CEC weighted efficiency	94.0%	94.0%
Nominal MPP tracking efficiency	99.0%	99.0%
Mechanical Data		
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
Features & Compliance		
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
¹ Programmable to meet customer need		



1300 73 93 55
solargain.com.au

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

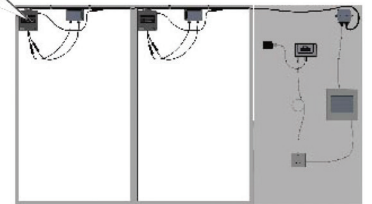
The APS Communicator, our state of the art Energy Communication Unit (ECU) is the information gateway for microinverters, collecting module performance data from each individual microinverter, and requiring only a single power cable for both power and data transmission.



AC Module



Same as 500W models install on rail only.



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

