

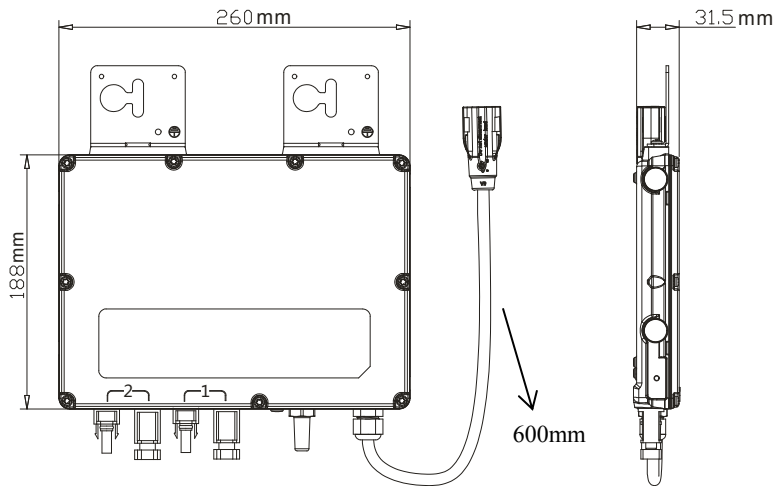


## YC600

### Microinverter

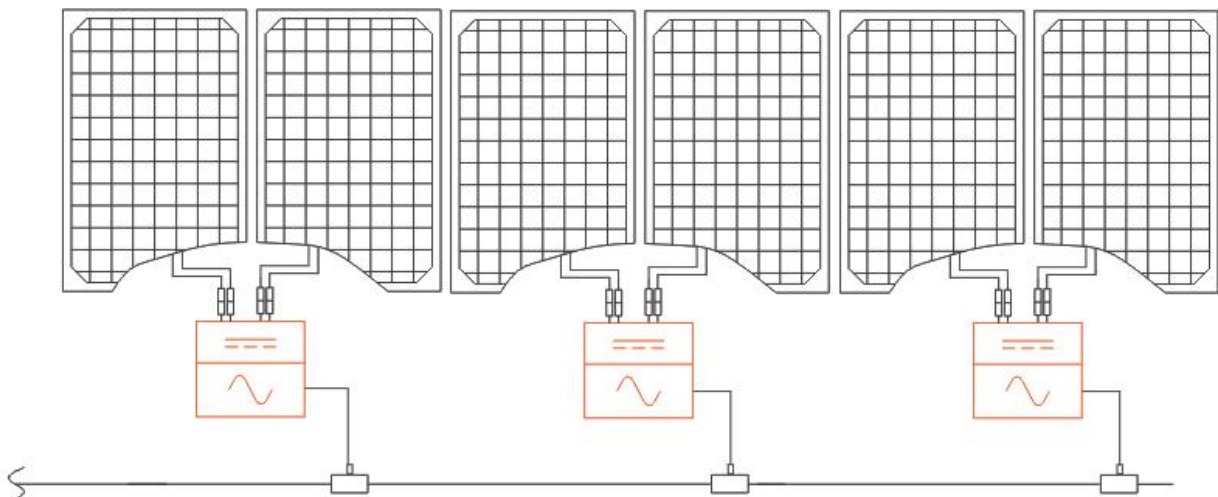
- Single unit connects two modules
- 2 input channels with independent MPPT and monitoring function
- Maximum AC output power 548VA
- Anti-islanding protection relay integrated
- Adjustable output power factor

#### DIMENSIONS



Our flagship new range of Grid-tied microinverters with Reactive Power Control (RPC) features includes the new YC600. The APsystems YC600 is a grid-tied microinverter with intelligent networking and advanced monitoring systems to ensure maximum efficiency. High efficiency, high reliability of the YC600 with 2 independent MPPT inputs, Maximum AC output power reaching 548VA. Half the inverters and half the installation means real cost savings for residential and commercial customers.

#### WIRING SCHEMATIC



# YC600 Microinverter Datasheet

<b>Region</b>	USA
<b>Model</b>	YC600-NA
<b>Input Data (DC)</b>	
Recommended PV Module Power (STC) Range	250Wp-375Wp / 60 and 72-cell PV modules
MPPT Voltage Range	22V-45V
Operation Voltage Range	16V-55V
Maximum Input Voltage	55V
Maximum Input Current	12A x 2
Maximum Input Short Circuit Current	13.2A
<b>Output Data (AC)</b>	
Peak Output Power	600VA
Maximum Continuous Output Power	548VA
Nominal Output Voltage	240V
Nominal Output Current	2.28A
Maximum Units Per Branch	8 (16PV modules)
Nominal Output Frequency	60Hz
Adjustable Output Voltage Range	160-278V
Adjustable Output Frequency Range	55.1-64.9Hz
Power Factor	>0.99
Total Harmonic Distortion	<3%
Maximum Output Overcurrent Protection	6.3A
<b>Efficiency</b>	
Peak Efficiency	96.5%
CEC Efficiency	96.5%
Nominal MPPT Efficiency	99.5%
Night Power Consumption	60mW
<b>Mechanical Data</b>	
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)	10.3" x 7.4" x 1.2" (260mm X 188mm X 31.5mm)
Weight	7.1lbs (3.25kg)
AC Bus Maximum Current	20A
Connector Type	MC4 Type or Customize
Cooling	Natural Convection - No Fans
Enclosure Environmental Rating	NEMA6
Overvoltage Category	OVC II For PV Input Circuit, OVC III For Mains Circuit
<b>Features</b>	
Communication (Inverter To ECU)	Wireless
Transformer Design	High Frequency Transformers, Galvanically Isolated
Monitoring	Via EMA Software
Waranty	10 Years Standard ; 20 Years Optional
<b>Certificate&amp;Compliance</b>	
Safety And EMC Compliance	UL1741 FCC Part15; ANSI C63.4;ICES-003
Grid Connection Compliance	IEEE1547
NEC Compliance	NEC2014&NEC2017 Section 690.11 DC Arc-Fault circuit Protection NEC2014&NEC2017 Section 690.12 Rapid Shutdown of PV systems on Buildings

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Specifications subject to change without notice - please ensure you are using the most recent update found at [www.APsystems.com](http://www.APsystems.com)