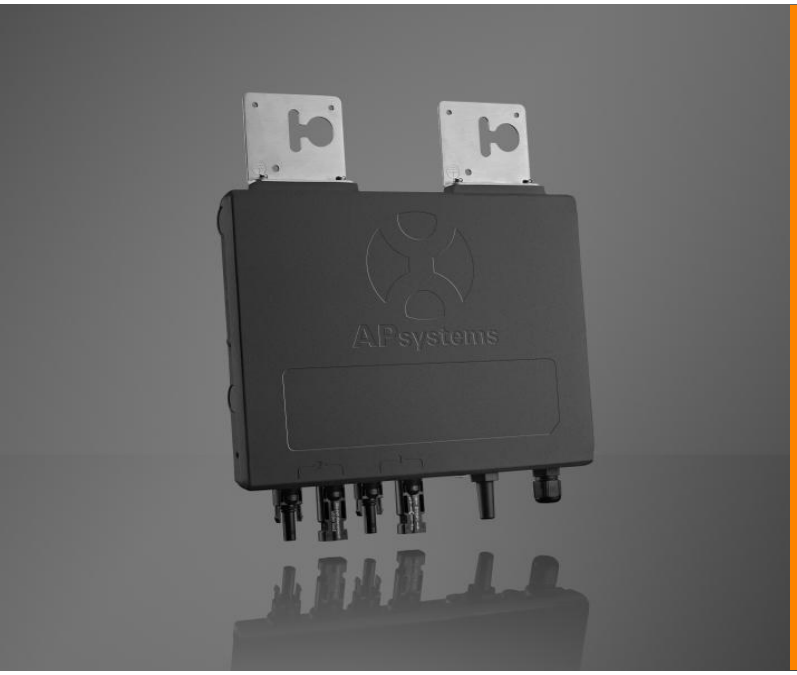
APsystems
ALTENERGY POWER

Leading the Industry in
Solar Microinverter Technology

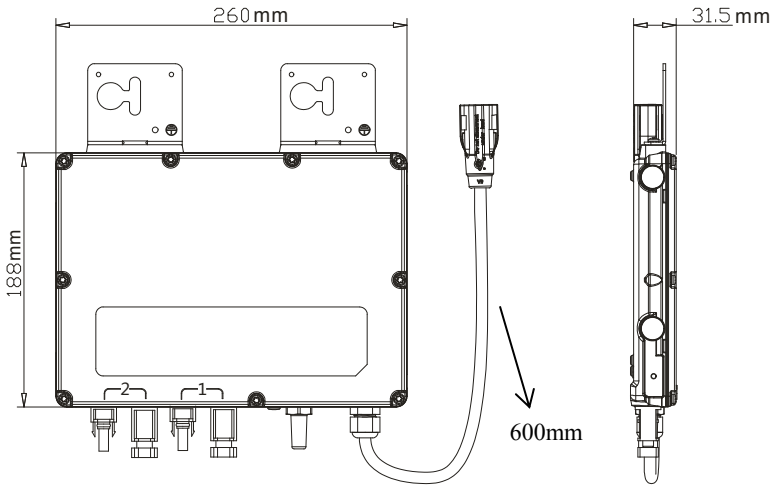


YC600

Microinverter

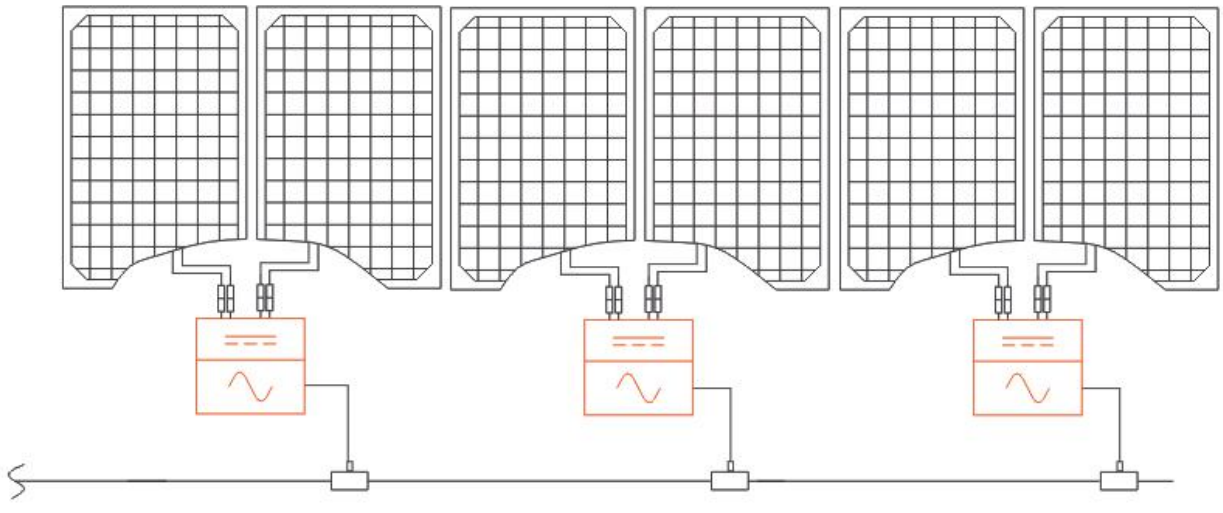
- Single unit connects two modules
- 2 input channels with independent MPPT and monitoring function
- Maximum AC output power 548VA
- Anti-islanding protection relay integrated
- Adjustable output power factor

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

Region	Canada
Model	YC600-NA
Input Data (DC)	
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
Output Data (AC)	
Peak Output Power	600VA
Maximum Continous 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
Efficiency	
Peak Efficiency	96.5%
CEC Efficiency	96.5%
Nominal MPPT Efficiency	99.5%
Night Power Consumption	60mW
Mechanical Data	
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” × 7.4” × 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
Features	
Communication (Inverter To ECU)	Wireless
Transformer Design	High Frequency Transformers, Galvanically Isolated
Monitoring	Via EMA Software
Waranty	10 Years Standard ; 20 Years Optional
Certificate&Compliance	
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

Specifications subject to change without notice - please ensure you are using the most recent update found at www.APsystems.com

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