

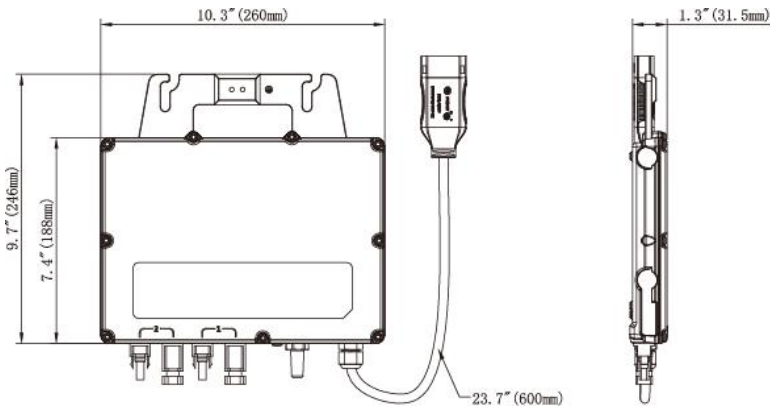


## YC600

### Microinverter

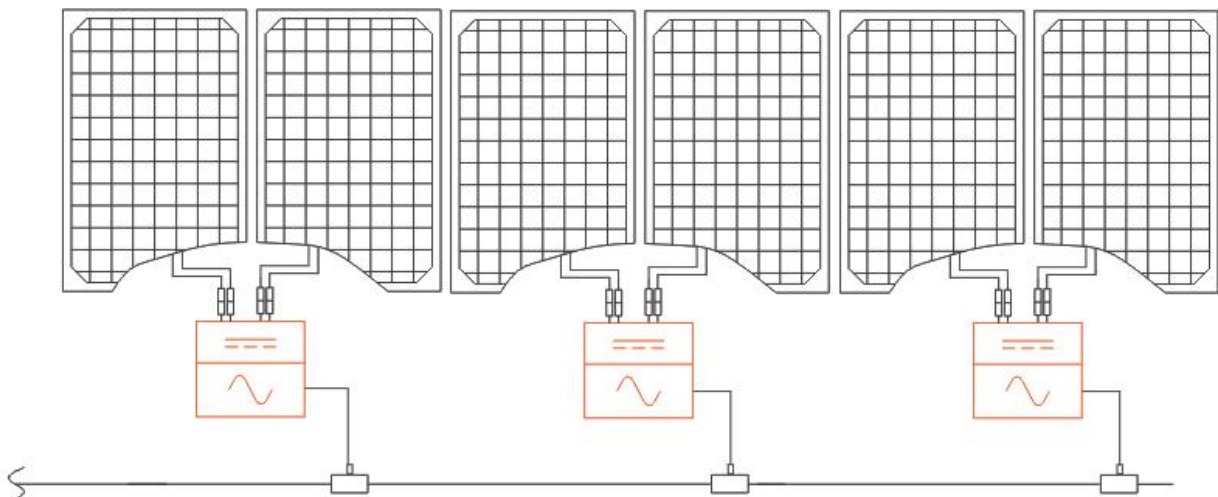
- Dual-module microinverter with independent MPPT per panel
- Utility interactive with Reactive Power Control (RPC)
- 548VA continuous output power, 600VA peak
- CA Rule 21 (UL 1741 SA) compliant
- Accommodates 60 & 72-cell PV modules up to 440W+

#### DIMENSIONS



The YC600 is a dual-module, utility-interactive microinverter with Reactive Power Control (RPC) technology and Rule 21 grid support functionality. The first of its kind, the YC600 was designed to accommodate today's high output PV panels, offer enhanced capability and meet the latest grid compliance standards. Offering an unprecedented 300VA peak output power per channel, the YC600 works with 60 and 72-cell PV modules and offers dual, independent MPPT per panel. The YC600 also operates within a wider MPPT voltage range than competing brands for a greater energy harvest.

#### WIRING SCHEMATIC



# YC600 Microinverter Datasheet

<b>Region</b>	<b>Canada</b>
<b>Model</b>	<b>YC600-NA</b>
<b>Input Data (DC)</b>	
Recommended PV Module Power (STC) Range	250Wp-440Wp+
MPPT Voltage Range	22V-48V
Operation Voltage Range	16V-55V
Maximum Input Voltage	60V
Maximum Input Current	12A x 2
Maximum Input Short Circuit Current	13.2A
<b>Output Data (AC)</b>	
Maximum Continuous Output Power	548VA
Peak Output Power	600VA
Nominal Output Voltage/Range	240V/211V-264V
Adjustable Output Voltage Range	160-278V
Nominal Output Current	2.28A
Maximum Units Per Branch	7 (14PV modules) per 20A AC breaker
Nominal Output Frequency/Range	60Hz/59.3Hz-60.5Hz
Adjustable Output Frequency Range	55-65Hz
Power Factor(Adjustable)	0.8 leading...0.8 lagging
Total Harmonic Distortion	<3%
Maximum Output Fault Current (AC) And Duration	170 Apk, 0.36 ms of duration
Maximum Output Overcurrent Protection	6.3A
<b>Efficiency</b>	
Peak Efficiency	96.7%
CEC Efficiency	96.5%
Nominal MPPT Efficiency	99.5%
Night Power Consumption	20mW
<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 1.3" (260mm X 188mm X 31.5mm)
Weight	5.7lbs(2.6kg)
AC Bus Maximum Current	25A(12AWG)
Connector Type	MC4 Type
Cooling	Natural Convection - No Fans
Enclosure Environmental Rating	Type6
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* Online Porta
Waranty	10 Years Standard ; 25 Years Optional
<b>Certificate&amp;Compliance</b>	
Safety And EMC Compliance	UL1741;CSA C22.2 No. 107.1-16;CA Rule 21 (UL 1741 SA); 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; CSA C22.2 No. 107.1-16

\*APsystems online Energy Management Analysis (EMA) platform

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