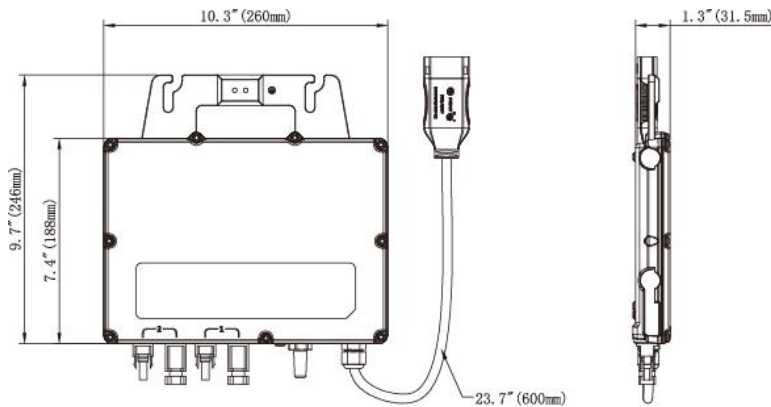


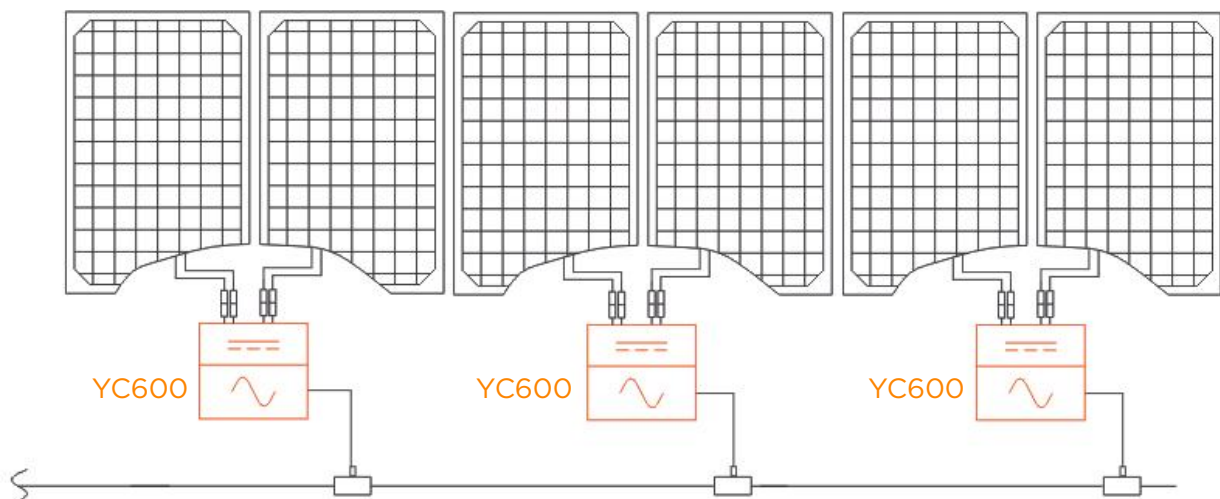
YC600

- 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 PV modules up to 440W+
- Accommodates 60-cell / 120 split-cell and 72-cell / 144 split-cell PV modules, including bi-facial

DIMENSIONS



WIRING SCHEMATIC



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 a wide variety of 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.

YC600 Microinverter Datasheet

Region

USA / Canada

Input Data (DC)

Recommended PV Module Power (STC) Range	250Wp-440Wp+	
PV Module compatibility	60-cell / 120 split-cell and 72-cell / 144 split-cell PV modules, including bi-facial	
MPPT Voltage Range	22V-45V	
Operation Voltage Range	16V-55V	
Maximum Input Voltage	60V	
Maximum Input Current	12A x 2	
Maximum Input Short Circuit Current	13.2A	

Output Data (AC)

	240V	208V
Maximum Continuous Output Power	548VA	
Peak Output Power	600VA	
Nominal Output Voltage/Range	240V/211V-264V	208V/183V-229V
Adjustable Output Voltage Range	160-278V	
Nominal Output Current	2.28A	2.63A
Maximum Units Per Branch	7 units per 20A AC breaker (2.28A x 7 = 15.96A)	9 units per 30A AC breaker (2.63A x 6 = 15.78A)
	10 units per 30A AC breaker (2.28A x 10 = 22.8A)	6 units per 20A AC breaker (2.63A x 9 = 23.67A)
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 Overcurrent Protection	6.3A	

Efficiency

Peak Efficiency	96.7%
CEC Efficiency	96.5%
Nominal MPPT Efficiency	99.5%
Night Power Consumption	20mW

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" x 7.4" x 1.3" (260mm X 188mm X 31.5mm)
Weight	5.7lbs(2.6kg)
AC Bus Cable	10AWG/12AWG
DC Connector Type	Stäubli MC4 PV-ADBP4-S2&ADSP4-S2
Cooling	Natural Convection - No Fans
Enclosure Environmental Rating	Type 6
Overvoltage Category	OVC II For PV Input Circuit, OVC III For Mains Circuit

Features

Communication (Inverter To ECU)	Zigbee Wireless, 2.4GHz
Transformer Design	High Frequency Transformers, Galvanically Isolated
Monitoring	Via EMA* Online Portal

Certificate&Compliance

Compliance	UL-1741** / IEEE-1547, FCC Part 15 Class B, ICES-0003 Class B, CA Rule 21 (UL-1741-SA)**
NEC Compliance	NEC 2014, 2017 and 2020 690.12 for Rapid Shutdown / Module Level Shutdown, CAN / CSA-C22.2 NO. 107.1-16

*APsystems online Energy Management Analysis (EMA) platform

**Meets the standard requirements for Distributed Energy Resources (UL 1741, UL 1741-SA) and identified with the CSA Listed Mark



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

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