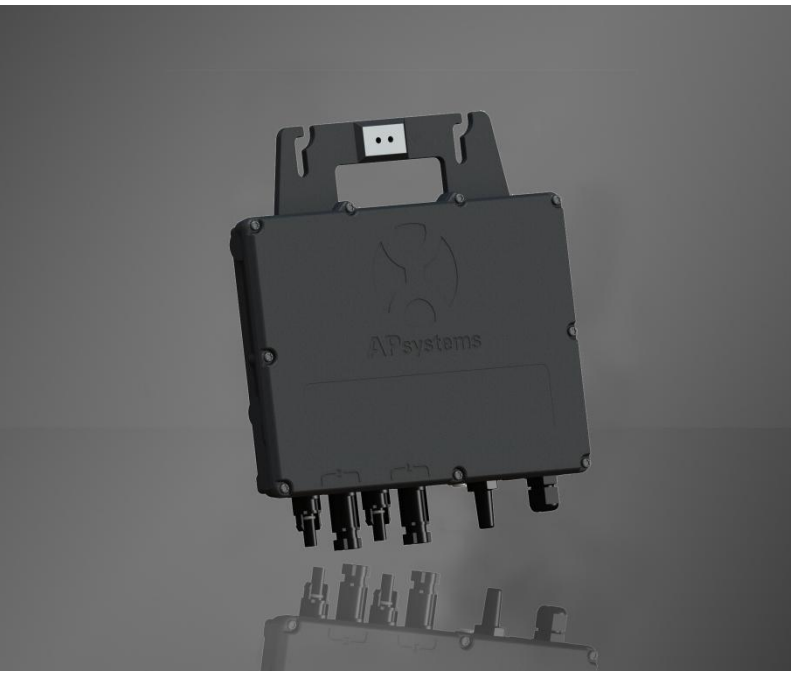
APsystems

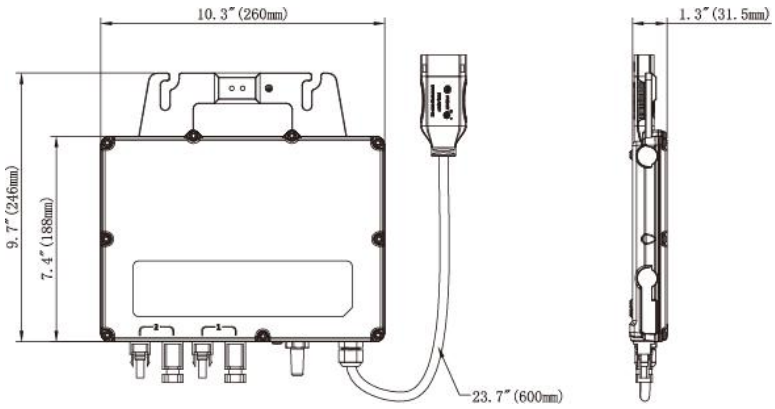
## Leading the Industry in Solar Microinverter Technology




# YC600

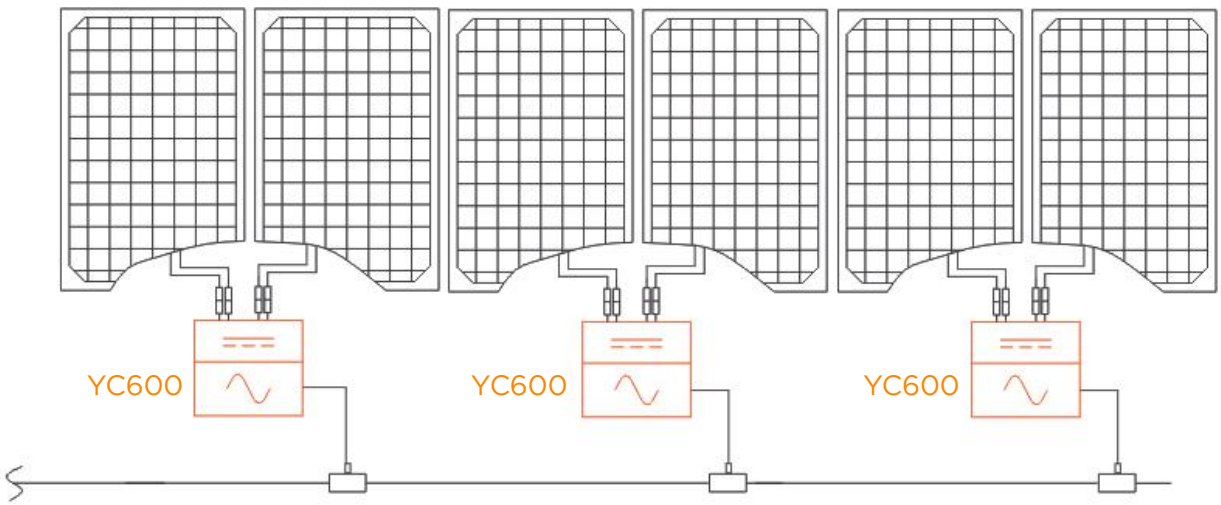
- Dual-module microinverter with independent MPPT per panel
- Utility interactive with Reactive Power Control (RPC)
- 548VA continuous output power, 600VA peak
- CA Rule 21 (UL 1741 SA) compliant
- Accommodates PV modules up to 440W+
- Accommodates 60-cell / 120 split-cell and 72-cell / 144 split-cell PV modules, including bi-facial

## DIMENSIONS




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.

## WIRING SCHEMATIC



# 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 Continous 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 (16A max on 20A bkr) | 7 units per 20A AC breaker (2.28A x 7 = 15.96A) | 6 units per 20A AC breaker (2.63A x 6 = 15.78A) |
| 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” × 7.4” × 1.3” (260mm X 188mm X 31.5mm) | |
| Weight | 5.7lbs(2.6kg) | |
| AC Bus Cable | 12AWG | |
| Connector Type | MC4 Type | |
| 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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