



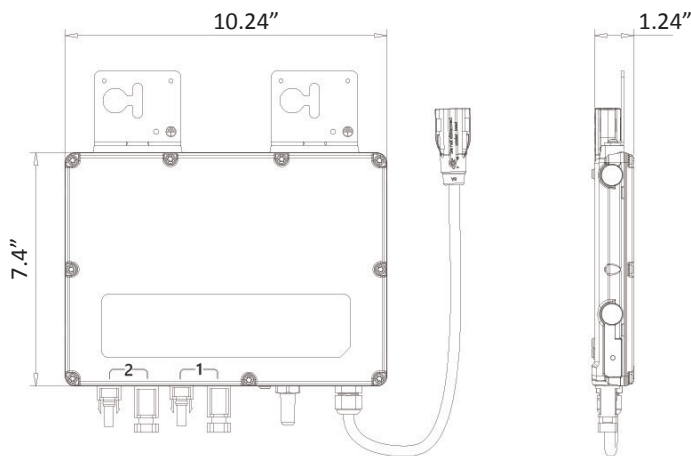
Leading the Industry in
Solar Microinverter Technology

YC600

Microinverter

- Dual-module microinverter with independent MPPT
- Utility-interactive with Reactive Power Control (RPC)
- CA Rule 21 compliant
- Continuous power of 274VA per channel, 300VA peak
- Accommodates modules from 250-365W+
- Wide MPPT voltage range (22V-48V)
- Meets NEC 2014/2017 690.12 Rapid Shutdown requirements
- ZigBee communication & free monitoring

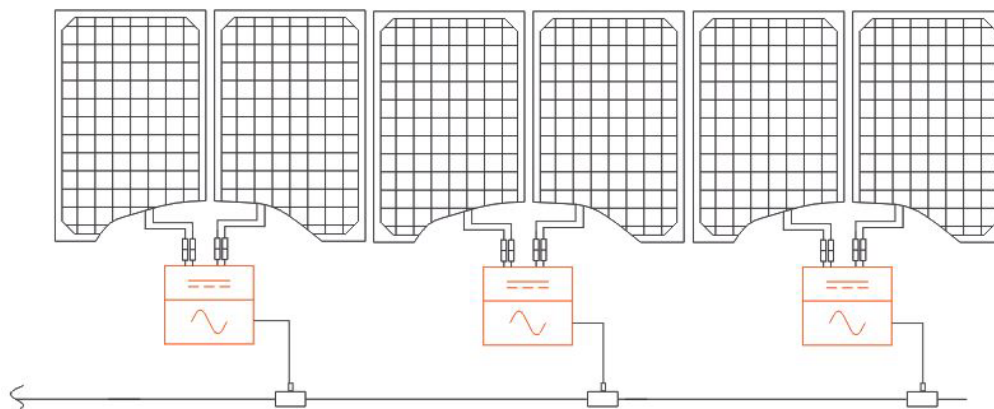
DIMENSIONS



With its groundbreaking design and features, the YC600 is the pinnacle of microinverter technology. A single-phase, smart grid-compliant microinverter, the YC600 serves two modules with dual, independent MPPT. Zigbee wireless communication over a mesh network offers faster data speeds than PLC and a wider MPPT voltage range results in a greater energy harvest for homeowners.

A true utility-interactive microinverter with Reactive Power Control (RPC) technology, the YC600 meets CA Rule 21 requirements and is inherently NEC 2014/2017 Rapid Shutdown compliant. The unit also builds on the successful APsystems line of multi-module microinverters, simplifying installation and reducing logistics costs.

WIRING SCHEMATIC



APsystems YC600 Microinverter Datasheet

INPUT DATA (DC)

| | |
|--|-------------------------|
| Module Compatibility | 60 & 72 Cell PV Modules |
| MPPT Voltage Range | 22V-48V |
| Operation Voltage Range | 16V-55V |
| Maximum Input Voltage | 55V |
| Maximum Input Current | 12A x 2 |
| Maximum Total PV Array Short Circuit Current | 15A |

OUTPUT DATA (AC)

| | 240V | 208V |
|-----------------------------------|---------------------------|---------------------------|
| Maximum Continuous Output Power | 548VA | 548VA |
| Peak Output Power | 600VA | 600VA |
| Nominal Output Voltage | 240V | 208V |
| Nominal Output Current | 2.28A | 2.63A |
| Nominal Output Frequency | 60Hz | 60Hz |
| Adjustable Output Voltage Range | 211-264V | 183-229V |
| Adjustable Output Frequency Range | 59.3 - 60.5Hz | 59.3 - 60.5Hz |
| Power Factor (Adjustable) | 0.8 leading...0.8 lagging | 0.8 leading...0.8 lagging |
| Total Harmonic Distortion | <3% | <3% |
| Maximum Units per Branch | 7 (14 PV modules) | 6 (12 PV modules) |

EFFICIENCY

| | |
|-------------------------|-------|
| Peak Efficiency | 96.7% |
| CEC Weighted 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 (WxHxD) inches | 10.24" x 7.4" x 1.24" |
| Dimensions (WxHxD) mm | 260mm x 188mm x 31.5mm |
| Weight | 5.7 lbs (2.6kg) |
| AC BUS Maximum Current | 20A |
| Connector Type | MC4 Type |
| Enclosure Rating | NEMA 6 (IP67) |
| Cooling | Natural Convection - No Fans |

FEATURES & COMPLIANCE

| | |
|---------------------------------------|---|
| Communication | Wireless Zigbee |
| Transformer Design | High Frequency Transformers, Galvanic Isolation |
| Monitoring | Via EMA**Online Portal |
| Emissions & Immunity (EMC) Compliance | FCC PART 15, ANSI C63.4, ICES-003 |
| Safety & Grid Connection Compliance | UL1741, UL1741 SA, IEEE1547, CSA C22.2 No.107.1-01, NEC 2017 690.12, 690.11, CA Rule 21 |

* Depending on the local regulations.

**APsystems online Energy Management Analysis (EMA) platform

Specifications subject to change without notice – please ensure you are using the most recent version found at APsystems.com

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