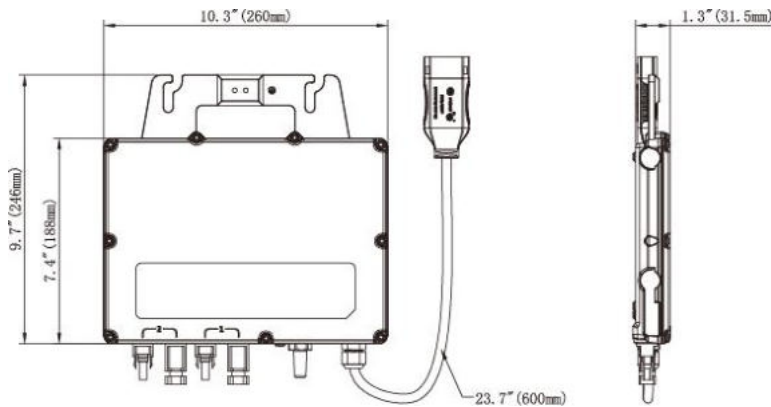




YC600

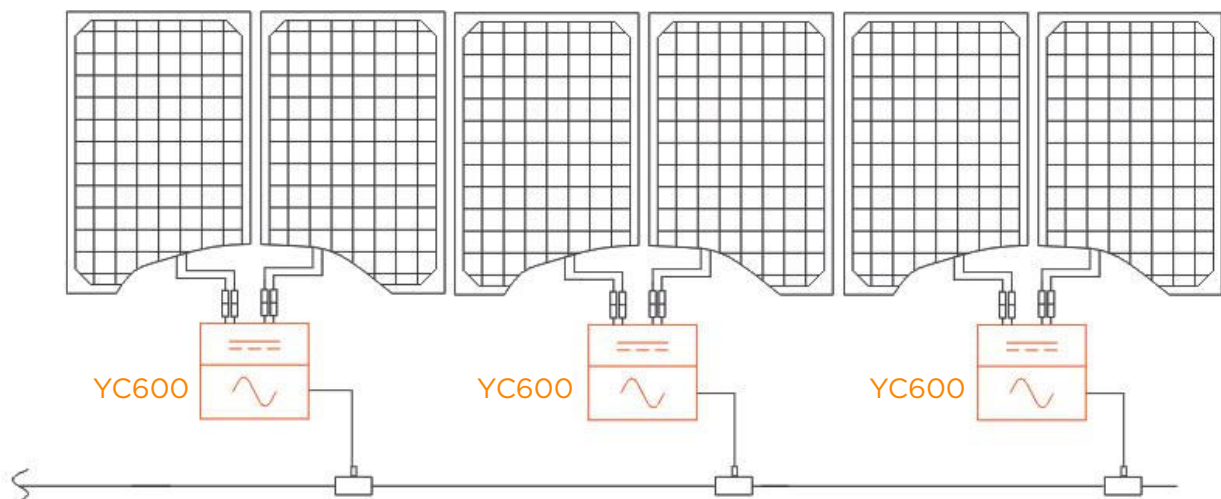
- Dual-module microinverter with independent MPPT per panel
- Utility interactive with Reactive Power Control (RPC)
- 548VA continuous output power, 600VA peak
- CA Rule 21 (UL 1741 SA) compliant
- Accommodates 60 & 72-cell PV modules up to 440W+

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

Region

USA Canada

Input Data (DC)

Recommended PV Module Power (STC) Range	250Wp-440Wp+	
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	7units per 20A AC breaker	6units 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 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	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)	Wireless
Transformer Design	High Frequency Transformers, Galvanically Isolated
Monitoring	Via EMA* Online Portal

Certificate&Compliance

Compliance	UL1741; CSA C22.2 No. 107.1-16; CA Rule 21 (UL 1741 SA); FCC Part15; ICES-003; IEEE1547
NEC Compliance	NEC2014 & NEC2017 Section 690.11 DC Arc-Fault circuit Protection NEC2014 & NEC2017 & NEC2020 Section 690.12 Rapid Shutdown of PV systems on Buildings

*APsystems online Energy Management Analysis (EMA) platform



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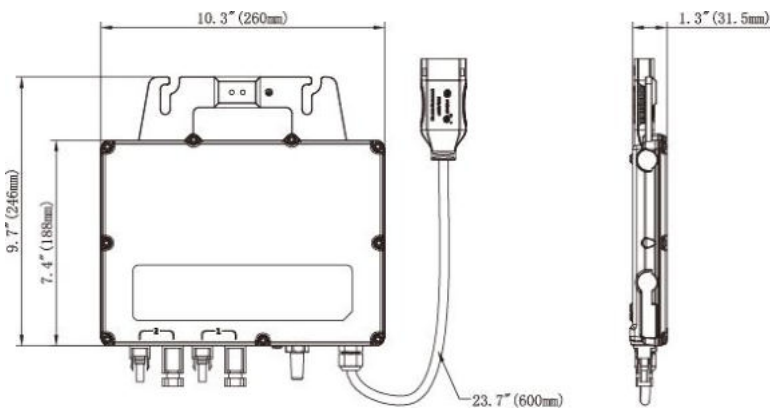
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YC600

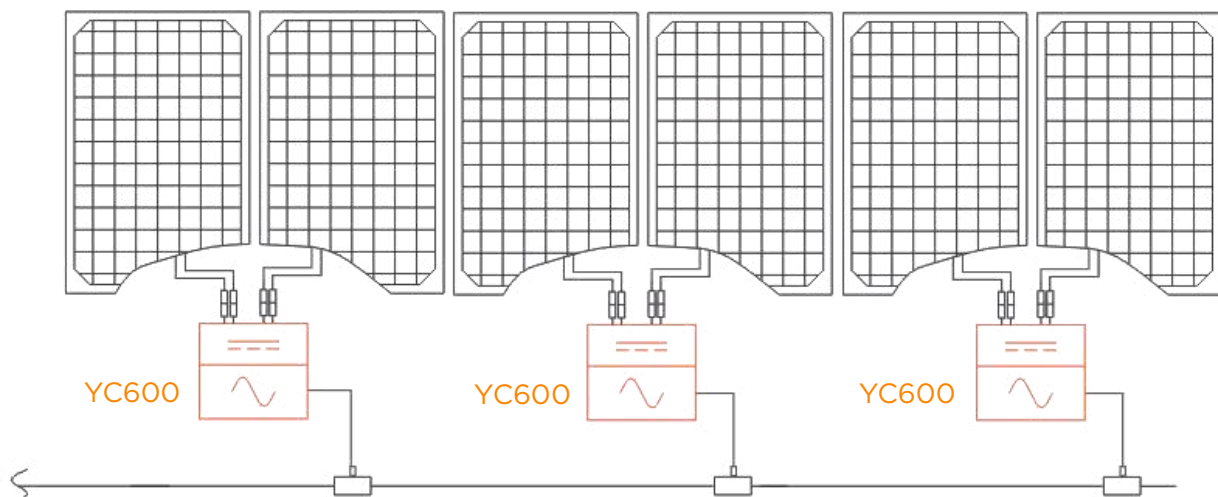
- Single unit connects two modules
- 2 input channels with independent MPPT and monitoring function
- Peak output power 600VA
- Anti-islanding protection relay integrated
- Adjustable output power factor

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, Peak AC output power reaching 600VA. Half the inverters and half the installation means real cost savings for residential and commercial customers.

WIRING SCHEMATIC



YC600 Microinverter Datasheet

Region

EMEA

Input Data (DC)

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

Output Data (AC)

Maximum Continuous Output Power

550VA

Peak Output Power

600VA

Nominal Output Voltage/Range

230V/184-253V

Adjustable Output Voltage Range

160-278V

Nominal Output Current

2.39A

Maximum Units Per Branch

6units per 20A AC breaker/8units per 25A AC breaker

Nominal Output Frequency/Range

50Hz/48-51Hz

Adjustable Output Frequency Range

45.1-54.9Hz

Power Factor(Adjustable)

0.8 leading...0.8 lagging

Total Harmonic Distortion

<3%

Zigbee RF Frequency Range

2405MHz to 2480MHz

Maximum RF Transmit Power

20dBm

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 °C to +65 °C

Storage Temperature Range

-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

2.6kg

AC Bus Maximum Current

20A(2.5mm²)

Connector Type

MC4 Type

Cooling

Natural Convection - No Fans

Enclosure Environmental Rating

Outdoor - IP67

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

Warranty

10 Years Standard ; 20 Years Optional

Certificate&Compliance

Safety And EMC Compliance

EN 62109-1; EN 62109-2; EN61000-6-1;EN61000-6-2;
EN61000-6-3; EN61000-6-4; EN61000-3-2; EN61000-3-3

Grid Connection Compliance

VDE4105, EN50549-1, VDE0126-1-1/A1 VFR2019, UTE C15-712-1,
ERDF-NOI-RES_13E

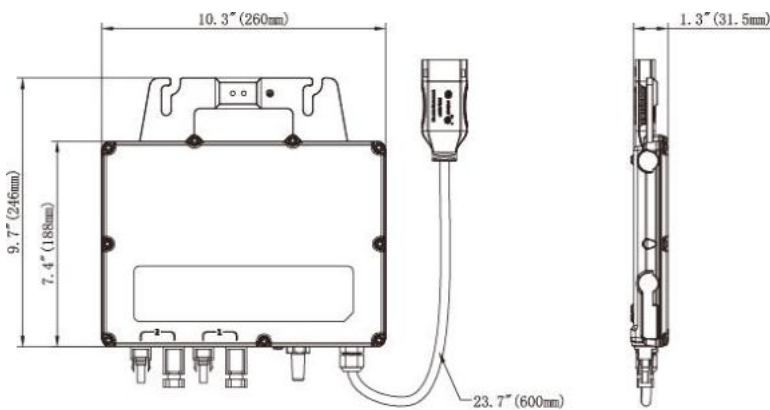




YC600

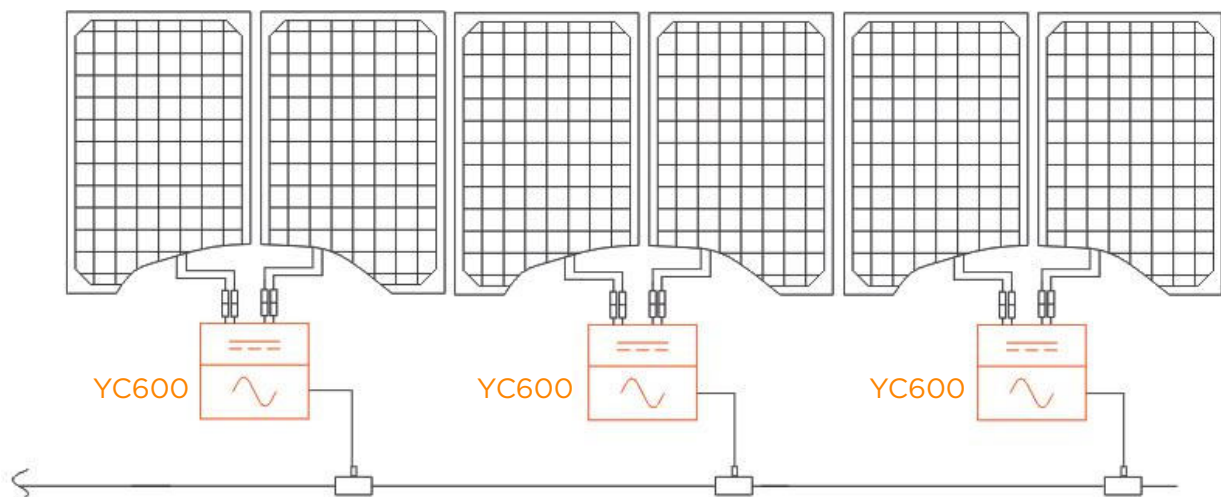
- Single unit connects two modules
- 2 input channels with independent MPPT and monitoring function
- Peak output power up to 600VA
- Auto disconnection device integrated
- Adjustable output power factor

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, Peak AC output power reaching 600VA. Half the inverters and half the installation means real cost savings for residential and commercial customers.

WIRING SCHEMATIC



YC600 Microinverter Datasheet

Region

AUNZ

Input Data (DC)

Recommended PV Module Power(STC)Range	250Wp-440Wp+
MPPT Voltage Range	22V-48V
Operation Voltage Range	16V-55V
Maximum Input Voltage	60V
Startup Voltage	20V
Maximum Input Current	12A×2
Maximum Total PV Array Short Circuit Current	14A

Output Data (AC)

Maximum Continuous Output Power	550VA
Peak Output Power	600VA
Nominal Output Voltage/Range	230V/184V-253V
Adjustable Output Voltage Range	160V-278V
Nominal Output Current	2.39A
Maximum Units per Branch	6units per 20A AC breaker/8units per 25A AC breaker
Maximum Output Fault Current	18A
Inrush Current	54.8A
Maximum Output Overcurrent Protection	6.3A
Nominal Output Frequency/Range	50Hz/48Hz-51Hz
Adjustable Output Frequency Range	45.1Hz-54.9Hz
Power Factor(Adjustable)	0.9leading...0.9lagging
Total Harmonic Distortion	<3%

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°C to +65°C
Storage Temperature Range	-40°C to +85°C
Dimensions (W x H x D)	260mm × 188mm × 31.5mm
Weight	2.6kg
AC BUS Maximum Current	20A(2.5mm ²)
Enclosure Environmental Rating	IP67
Overvoltage Category	III
Wet Locations Classification	For Wet Locations
Pollution Degree Classification	Internal-PD2, Outside-PD3
Cooling	Natural Convection - No Fans
Overvoltage Category	OVC II For PV Input Circuit, OVC III For Mains Circuit

Features

DRM	Yes
Communication	Wireless
Transformer Design	High Frequency Transformers, Galvanically Isolated
Monitoring	Via EMA Software
Warranty	10 Years Standard ; 15 Years Optional

Certificate&Compliance

Safety And EMC Compliance	IEC 62109-1;IEC 62109-2;EN 61000-6-1;EN 61000-6-2;EN 61000-6-3;EN 61000-6-4;EN61000-3-2;EN61000-3-3
Grid Connection Compliance	AS/NZS 4777.2:2015

YC600 must be installed in conjunction with ECU-C or ECU-R in order to comply with AS/NZS 4777.2:2015

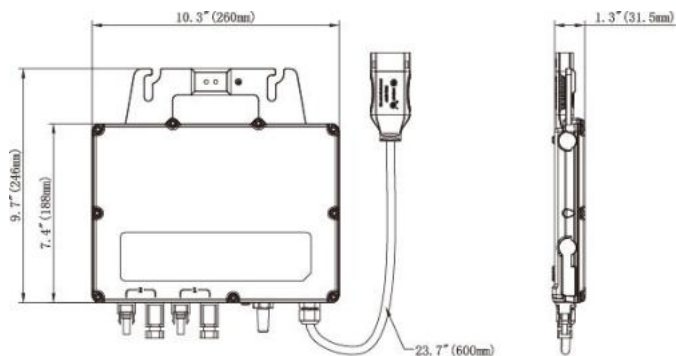


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YC600

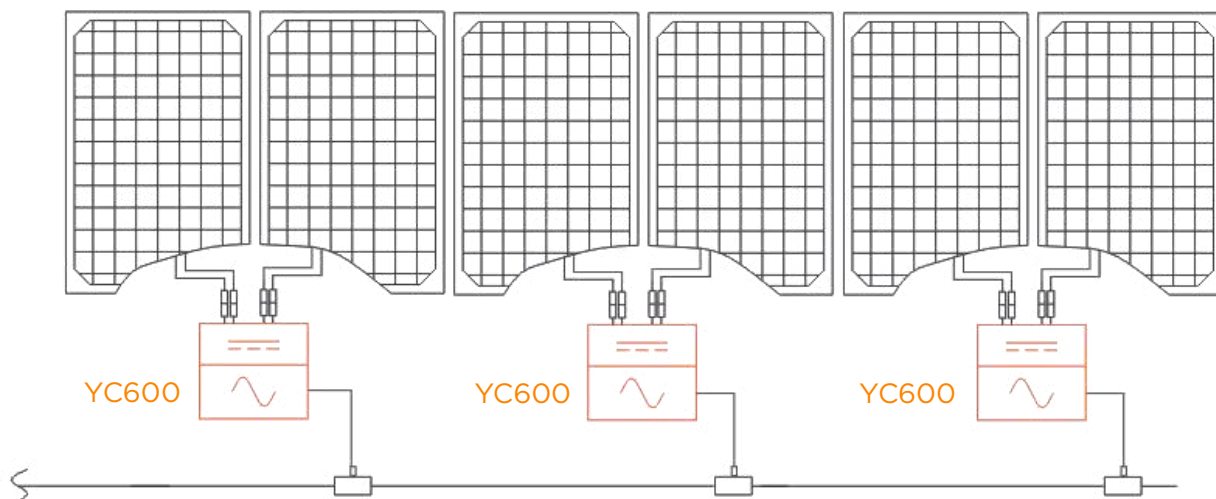
- 一台微逆可连接2块太阳能组件
- 2路独立的MPPT与监控功能
- 最大输出功率可达600VA
- 输出功率因数可调

尺寸



昱能产品 YC600 是带有智能联网和监控系统的并网型逆变器。高效率、高可靠性的 YC600 具有 2 路独立的 MPPT 输入, 最大输出功率可达 600VA。微型逆变器加上安装方便, 真正做到为住宅和商业客户节约了成本。

接线示意图



YC600 微型逆变器参数表

区域	中国
直流输入	
推荐组件功率范围	250Wp-440Wp+
MPPT 电压范围	22V-48V
工作电压范围	16V-55V
最大直流输入电压	60V
启动电压	20V
最大直流输入电流	12A x 2
交流输出	
额定输出功率	550VA
最大输出功率	600VA
额定交流电压/默认输出电压范围	220V/ 187V-270V*
扩展输出电压范围	149V-278V
额定交流电流	2.5A
额定交流频率/默认输出频率范围	50Hz/ 47.5Hz-50.5Hz*
扩展输出频率范围	45.1Hz-54.9Hz
支路最大微逆变器连接数	6 台 (基于 20A 空开) / 7 台 (基于 25A 空开) **
功率因数 (可调)	0.8 leading...0.8 lagging
输出电流总谐波畸变率 THD	<3%
效率	
最高转换效率	96.5%
CEC 加权效率	96.5%
MPPT 跟踪效率	99.5%
夜间损耗	20mW
机械数据	
工作环境温度	-40°C 至 +65°C
存储环境温度	-40°C 至 +85°C
尺寸 (长 x 宽 x 高)	260mm x 188mm x 31.5mm
重量	2.6kg
交流线缆规格	20A (2.5mm ²)
防护等级	IP67
冷却	自然冷却 (无风扇)
其他特征	
通讯方式	无线通讯
监控	APsystems EMA 软件提供系统监控功能
隔离特性	高频变压器隔离
认证标准	NB/T32004:2018

* 客户可现场通过 ECU 根据电网需要调节。

** 可根据当地电网法规进行调节。



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