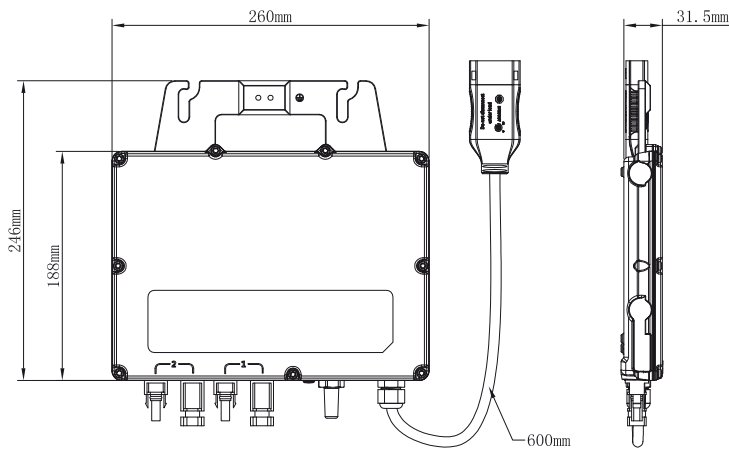


YC600 Microinverter

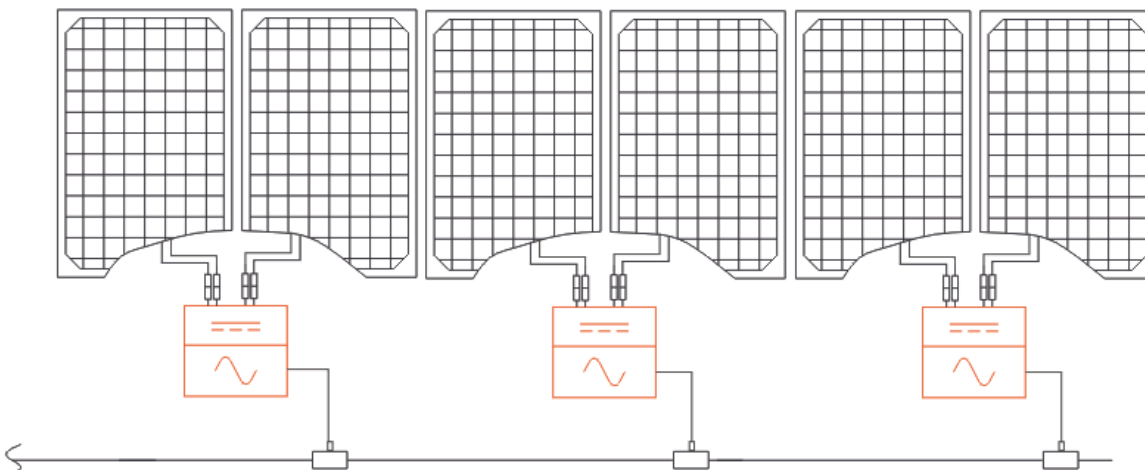
- Single unit connects two modules
- 2 input channels with independent MPPT and monitoring function
- Peak output power 600VA
- Anti-islanding protection relay integrated
- Adjustable output power factor

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



Datasheet | YC600 Microinverter

Region

Australian and New Zealand

Model

YC600

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 x 2
Maximum Total PV Array Short Circuit Current	14A

Output Data (AC)

Peak Output Power	600VA
Nominal Output Voltage/Range	230V/184V-253V
Adjustable Output Voltage Range	160V-278V
Nominal Output Current	2.6A
Maximum Units per Branch	6 units per 20A 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)	0.9 leading...0.9 lagging
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 X 188mm X 31.5mm
Weight	2.6kg
AC Bus Maximum Current	20A
Enclosure Environmental Rating	Outdoor - 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 (Inverter To ECU)	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	EN 62109-1; EN 62109-2; EN 61000-6-1; EN 61000-6-2; EN 61000-6-3; EN 61000-6-4; EN 61000-6-4; EN 61000-3-2; EN 61000-3-3
Grid Connection Compliance	VDE0126-1-1/A1 VFR2019, ERDF-NOI-RES_13E, VDE-AR-N 4105, RD1699, RD413, EN50438, EN50549, AS/NZS 4777.2:2015**

*Energy Management Analysis

**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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