

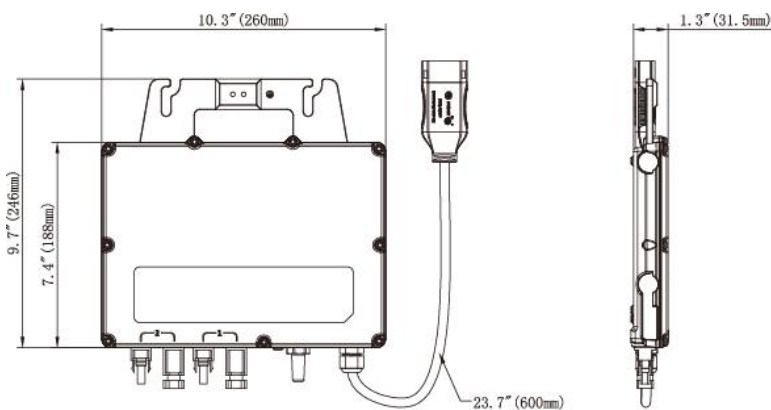


## YC600

### Microinverter

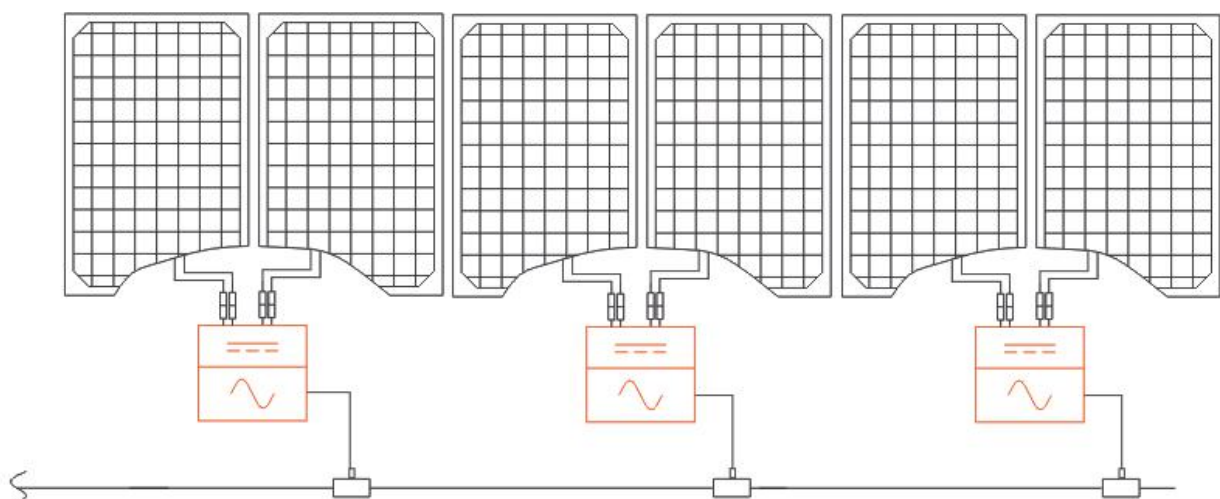
- Single unit connects two modules
- 2 input channels with independent MPPT and monitoring function
- Peak output power 600VA
- Anti-islanding protection relay integrated
- Adjustable output power factor

#### 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



# YC600 Microinverter Datasheet

<b>Region</b>	<b>EMEA</b>
<b>Model</b>	<b>YC600-EU</b>
<b>Input Data (DC)</b>	
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
<b>Output Data (AC)</b>	
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)	0.9 leading...0.9 lagging
Total Harmonic Distortion	<3%
<b>Efficiency</b>	
Peak Efficiency	96.7%
CEC Efficiency	96.5%
Nominal MPPT Efficiency	99.5%
Night Power Consumption	20mW
<b>Mechanical Data</b>	
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" × 7.4" × 1.3" (260mm X 188mm X 31.5mm)
Weight	2.6kg
AC Bus Maximum Current	20A(2.5mm <sup>2</sup> )
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
<b>Features</b>	
Communication (Inverter To ECU)	Wireless
Transformer Design	High Frequency Transformers, Galvanically Isolated
Monitoring	Via EMA Software
Warranty	10 Years Standard ; 20 Years Optional
<b>Certificate&amp;Compliance</b>	
Safety And EMC Compliance	EN 62109-1; EN 62109-2; EN61000-6-1;EN61000-6-2; EN61000-6-3; EN61000-6-4
Grid Connection Compliance	VDE0126-1-1/A1 VFR2014,ERDF-NOI-RES_13E,UTE C15-712-1, VDE-AR-N 4105,RD1699,RD413,EN50438

© All Rights Reserved

Specifications subject to change without notice  
please ensure you are using the most recent update found at [www.APsystems.com](http://www.APsystems.com)

## European Offices:

**APsystems**  
Cypresbaan 7,  
2908 LT,Capelle aan den IJssel The Netherlands  
Tel: 031-10-2582670  
Email: [emea@APsystems.com](mailto:emea@APsystems.com)

**APsystems**  
Rue des Monts dOr,  
ZAC de Follieuses Sud-Les Echets ,  
01700 Miribel, France  
Email: [emea@APsystems.com](mailto:emea@APsystems.com) | Tel: +33-481-65-60-40



2020/3/9 Rev2.2 1