



The world's best-selling multi-module microinverter just got an **upgrade.**

The all-new YC600

- ✓ Dual-module microinverter with independent MPPT per panel
- ✓ Utility interactive with Reactive Power Control (RPC)
- ✓ NEMA 6 enclosure
- ✓ Highest peak power output of 300VA per channel
- ✓ CA Rule 21 (UL1741 SA)
- ✓ More PV modules per string than comparable microinverters
- ✓ ZigBee wireless 3x faster than PLC
- ✓ Meets NEC 2017 690.12 Rapid Shutdown requirements
- ✓ Accommodates panels from 200W-365W+



POWERFUL
INNOVATION

APsystems YC600 Microinverter Datasheet

INPUT DATA (DC)

Module Compatibility	60 & 72 Cell PV Modules
MPPT Voltage Range	22-45V
Operation Voltage Range	16-55V
Maximum Input Voltage	55V
Startup Voltage	20V
Maximum Input Current	12A X 2
Maximum Total PV Array Short Circuit Current	15A
Maximum Inverter Backfeed Current to the Array	0A

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	211V-264V	183-229V
Adjustable Output Frequency Range	59.3 - 60.5Hz	59.3 - 60.5Hz
Power Factor	> 0.99	> 0.99
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	7.1 lbs (3.22kg)
AC BUS Maximum Current	20A
Enclosure Rating	NEMA 6 (IP67)
Cooling	Natural Convection - No Fans

FEATURES & COMPLIANCE

Communication	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	UL 1741, UL 1741 SA, IEEE1547, CSA C22.2 No. 1071-01, NEC 2017 690.12

* 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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