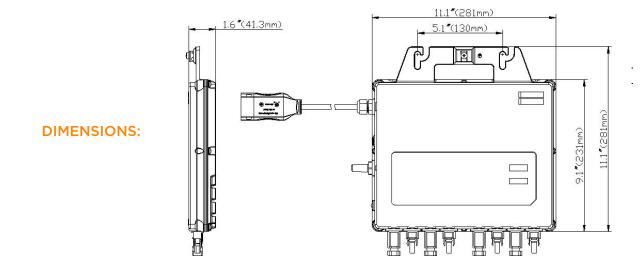


# Leading the Industry in **Solar Microinverter Technology**



APsystems breaks new ground once again with the QS1, a cutting edge microinverter design accommodating up to four high-capacity PV modules up to 450W+ with independent MPPT. A single-phase, smart grid-compliant microinverter, the QS1 features Zigbee wireless communication over a mesh network with faster data speeds than PLC, and a wide MPPT voltage range results in a greater energy harvest for homeowners.

A true utility-interactive microinverter with Reactive Power Control (RPC) technology, the QS1 is inherently NEC 690.12 2014/2017 Rapid Shutdown compliant. The unit also builds on the successful APsystems line of multi-module microinverters, simplifying installation and reducing costs.



## **APsystems QS1 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	60V
Startup Voltage	20V
Maximum Input Current	12A x 4
Maximum DC short circuit current	15A x 4
Recommended PV Module Input Power	440W
OUTPUT DATA (AC)	240V 208V

#### OUTPUT DATA (AC) 208V Maximum Continuous Output Power 1,200W 1,100W 240V/211V-264V 208V/183V-229V Nominal Output Voltage/Range Nominal Output Current 5.00A 5.29A Nominal Output Frequency/Range 60Hz/59.3Hz-60.5Hz >0.99 **Power Factor** Total Harmonic Distortion <3% 3 (12 PV modules) 3 (12 PV modules) Maximum units per branch

#### **EFFICIENCY**

Peak Efficiency	96.5%
Nominal MPPT Efficiency	99.5%
Night Power Consumption	30mW

#### **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)	11.1" x 9.1" x 1.6"(281mm x 231mm x 41.3mm)
Weight	9.9lbs (4.5kg)
AC Trunk Cable Maximum Current	20A
Enclosure Rating	NEMA 6
Cooling	Natural Convection - No Fans

#### **FEATURES**

Communication	Wireless (Zigbee)
Transformer Design	High Frequency Transformers, Galvanically Isolated
Monitoring	Via EMA* Online Portal
Warranty	10 years standard, extendable to 25 years

### **CERTIFICATE & COMPLIANCE**

Safety and EMC Compliance

Certificate & Compliance

#### Grid Connection Compliance

#### Rapid Shutdown

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\*\* Meets the standard requirements for Distributed Energy Resources (UL 1741) and identified with the CSA Listed Mark.

Specifications subject to change without notice - please ensure you are using the most recent update found at www.APsystems.com

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#### FCC Part15; ANSIC63.4; ICES-003

UL1741\*\*, CSAC22.2No.107.1-01 UL 1741 SA/Rule 21 compliant (240V version only)

**IEEE1547** 

Meets NEC 2014/2017 690.12

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