

## QS1 Quad Module Micro Inverter by APSystems



Price: CAD \$459.00

**SKU:** APS-QS1

**Product Categories:** [Micro Inverters](#), [Inverters](#), [Shop](#)

**Product Tags:** [4 module](#), [apsystems qs1](#), [apsystems qs1 canada](#), [canada](#), [micro inverter](#), [qs1](#), [qs1 canada](#), [quad](#), [quad micro inverter](#)

**Product Page:**

<https://www.modernoutpost.com/product/qs1-quad-module-micro-inverter-by-apsystems/>

### Product Summary

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.

## Product Description

APsystems breaks new ground once again with the QS1, a cutting edge microinverter design accommodating up to four high-capacity PV modules up to 375W 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 multimodule microinverters, simplifying installation and reducing costs.

The unit also builds on the successful APsystems line of multi-module microinverters, offering reduced logistics costs and integrated communication and connection features.

Quad microinverter with independent MPPT

300% faster installation than conventional microinverters

Highest peak power output of 300W per channel

Ideal module match is 320W to 360W

While the QS1 voltage range works with larger modules, clipping will occur when using modules larger than 370W

Want to work with larger modules of 400W+? See the [QS1A](#)

Wider MPPT voltage range for greater energy harvest

Accommodates PV panels up to 375W

2.4GHz ZigBee mesh network (3X faster than PLC)

Common AC trunk cable w/ YC600; flexible, mix-and-match compatibility

Download The Datasheet

### **The APsystems microinverter is smarter.**

APSystems microinverter technology individually monitors and maximizes power generation for each module in the array, boosting system efficiency by up to 20 percent. Each APsystems microinverter handles multiple PV modules, lowering logistics, installation and balance-of-system costs.

All APsystems microinverters are engineered to inherently comply with 2014/2017 NEC 690.12 requirements for Rapid Shutdown out of the box, ensuring safety of system installers and emergency responders. [Click here](#) to see the NEC 2014/2017 code compliance document and the APsystems Rapid Shutdown flier for more details.

QS1 Specifications in Brief

### **INPUT DATA (DC) PER CHANNEL**

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 Maximum

DC short circuit current 15A

Recommended PV Module Input Power 440W

### **OUTPUT DATA (AC)**

Maximum Continuous Output Power : 1,200W

Nominal Output Voltage/Range : 240V : 211V-264V

Nominal Output Current : 5.00A 5.29A

Nominal Output Frequency/Range : 60Hz/59.3Hz-60.5Hz

Power Factor >0.99 Total Harmonic Distortion <3%

Maximum units per branch 3 (12 PV modules)

### **EFFICIENCY**

Peak Efficiency 96.5%

Nominal MPPT Efficiency 99.5%

### **MECHANICAL DATA**

Operating Ambient Temperature Range -40°F to +149°F(-40°C to +65°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)

Monitoring Via EMA\* Online Portal

Warranty 10 years standard, extendable to 25 years

[Download the full Spec Sheet\]](#)

### Product Attributes

- Dimensions: 1 &times; 1 &times; 1 cm
- Weight: 1.4 kg