

QT2

The most powerful 3-phase Quad microinverter

- Designed for 3-phase grid connection
- Single unit connects to 4 modules, 2 MPPTs, module-level DC voltage
- Maximum continuous AC output power 2000VA @ 400V
- Engineered to harness today's high-capacity PV modules (Maximum input current 20A)
- Integrated safety protection relay
- Adjustable power factor
- Balancing 3-phase output
- Compatible with both Δ and Y 3-phase grid

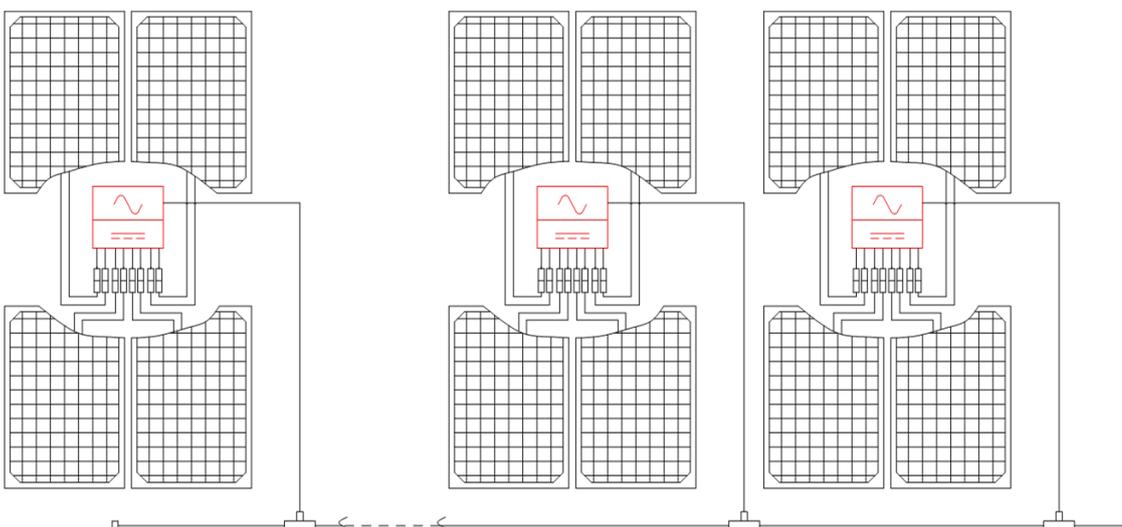
PRODUCT FEATURES

APsystems introduces its 2nd generation of native 3-phase quad microinverters, reaching unprecedented power outputs of 2000VA to harness the power of today's high-output PV modules. The QT2 microinverter gives commercial installers a powerful plug-and-play MLPE inverter that installs faster than competing solutions and is inherently compliant to rapid shutdown requirements.

With balancing 3-phase output, 4 DC inputs and encrypted ZigBee wireless, installers and system owners alike benefit from new QT2 architecture platform. The innovative design facilitates thermal dissipation while maximizing power production. The components are encapsulated with silicone to reduce stress on the electronics, dissipate heat, enhance waterproof properties, and ensure maximum reliability of the system. 24/7 access to performance data through apps or APsystems EMA web-based portal facilitate remote diagnosis and troubleshooting.

The new QT2 is grid interactive through its Reactive Power Control (RPC) feature, designed to better manage photovoltaic power spikes in the grid. At 96.5% peak efficiency and improved reliability, the QT2 is a game changer for commercial solar.

WIRING SCHEMATIC



Datasheet | QT2 3-Phase Microinverter

Model

QT2

Region

APAC

Input Data (DC)

Recommended PV Module Power (STC) Range	315Wp-670Wp+
Peak Power Tracking Voltage	30V-45V
Operating Voltage Range	26V-60V
Maximum Input Voltage	60V
Maximum Input Current	20A x 4

Output Data (AC)

Maximum Continuous Output Power	2000VA
Nominal Output Voltage/Range ⁽¹⁾	380V/324V-468V
Adjustable Output Voltage Range	305V-478V
Nominal Output Current	3.03Ax3
Nominal Output Frequency/Range ⁽¹⁾	50Hz/48-51Hz or 60Hz/59.3-60.5Hz
Adjustable Output Frequency Range	45Hz-65Hz
Power Factor(Default/Adjustable)	0.99/0.8 leading...0.8 lagging
Maximum Units per 4mm ² branch ⁽²⁾	9
AC Bus Cable	4mm ² (28A)

Efficiency

Peak Efficiency	96.5%
Nominal MPPT Efficiency	99.5%
Night Power Consumption	40mW

Mechanical Data

Operating Ambient Temperature Range ⁽³⁾	-40 °C to +65 °C
Storage Temperature Range	-40 °C to +85 °C
Dimensions (W x H x D)	359mm X 242mm X 46mm
Weight	6kg
DC Connector Type	Stäubli MC4 PV-ADBP4-S2&ADSP4-S2
Cooling	Natural Convection - No Fans
Enclosure Environmental Rating	IP67

Features

Communication (Inverter To ECU) ⁽⁴⁾	Encrypted ZigBee
Isolation Design	High Frequency Transformers, Galvanically Isolated
Energy Management	Energy Management Analysis (EMA) system
Warranty ⁽⁵⁾	10 Years Standard ; Extended Warranty Optional

Compliances

Safety, EMC & Grid Compliances	IEC 62109-1; IEC 62109-2; IEC 61000-6-1,-2,-3,-4; IEC 61727; IEC 62116; IEEE 1547; IEE 1547.1; AS 4777.3; MEA; PEA; EN 62109-1; EN 62109-2; EN 61000-6-1; EN 61000-6-3; EN 50549-1;
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(1) Nominal voltage/frequency range can be extended beyond nominal if required by the utility.

(2) Limits may vary. Refer to local requirements to define the number of microinverters per branch in your area.

(3) The inverter may enter to power de-grade mode under poor ventilation and heat dissipation installation environment.

(4) Recommend no more than 80 inverters register to one ECU for stable communication.

(5) To be eligible for the warranty, APsystems microinverters need to be monitored via the EMA portal. Please refer to our warranty T&Cs available on global.APsystems.com.

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