



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

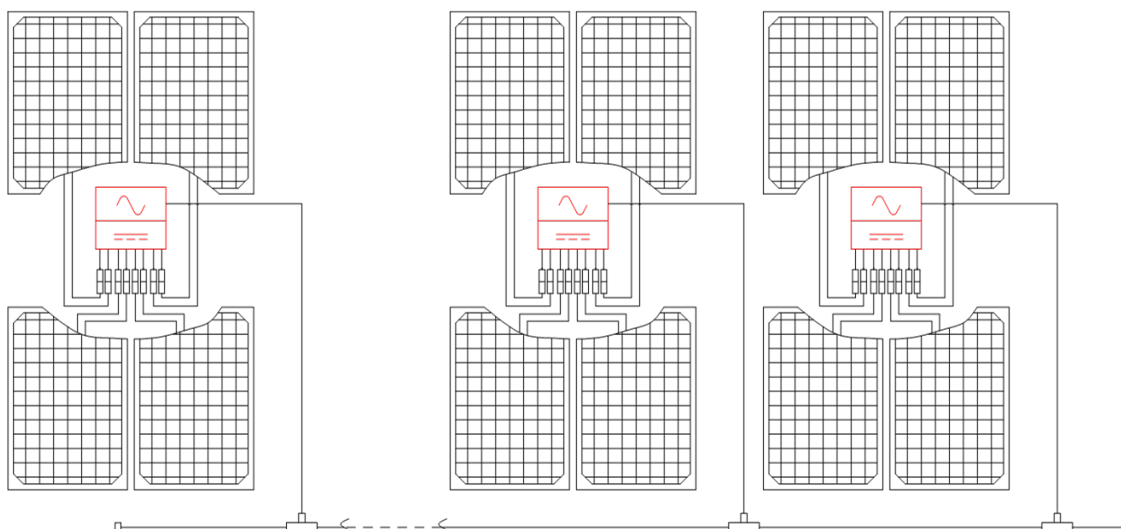
PRODUCT FEATURES

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. With an excellent performance and high conversion efficiency, a unique integration with less components, 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 |
| Isc PV | 25A x 4 |

Output Data (AC)

| | |
|--|----------------------------------|
| Maximum Continuous Output Power | 2000VA |
| Nominal Output Voltage/Range ⁽¹⁾ | 380V/324V-468V |
| Nominal Output Current | 3.03Ax3 |
| Nominal Output Frequency/Range ⁽¹⁾ | 50Hz/48-51Hz or 60Hz/59.3-60.5Hz |
| Power Factor(Default/Adjustable) | 0.99/0.8 leading...0.8 lagging |
| Maximum Units per 2.5mm ² branch ⁽²⁾ | 7 |
| Maximum Units per 4mm ² branch ⁽²⁾ | 9 |

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 | 6.1kg |
| AC Bus Cable | 2.5mm ² (23A)/4mm ² (30A) |
| 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⁾ | 12 Years Standard |

Compliances

| | |
|--------------------------------|--|
| Safety, EMC & Grid Compliances | IEC 62109-1; IEC 62109-2; IEC 61000-6-1,-2,-3,-4; Pending IEC 61727; IEC 62116; IEEE 1547; IEE 1547.1; AS/NZS 4777.2; MEA; PEA; EN 62109-1; EN 62109-2; EN 61000-6-1; EN 61000-6-3; EN 50549-1; |
|--------------------------------|--|

(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.APsistemas.com.

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