

QT2

The most powerful 3-phase Quad microinverter

- Designed for 3-phase grid connection (208V or 480V)
- Single unit connects to 4 modules, 2 MPPTs, module-level DC voltage
- Maximum continuous AC output power 1728VA @ 208V, 1800VA @ 480V
- 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

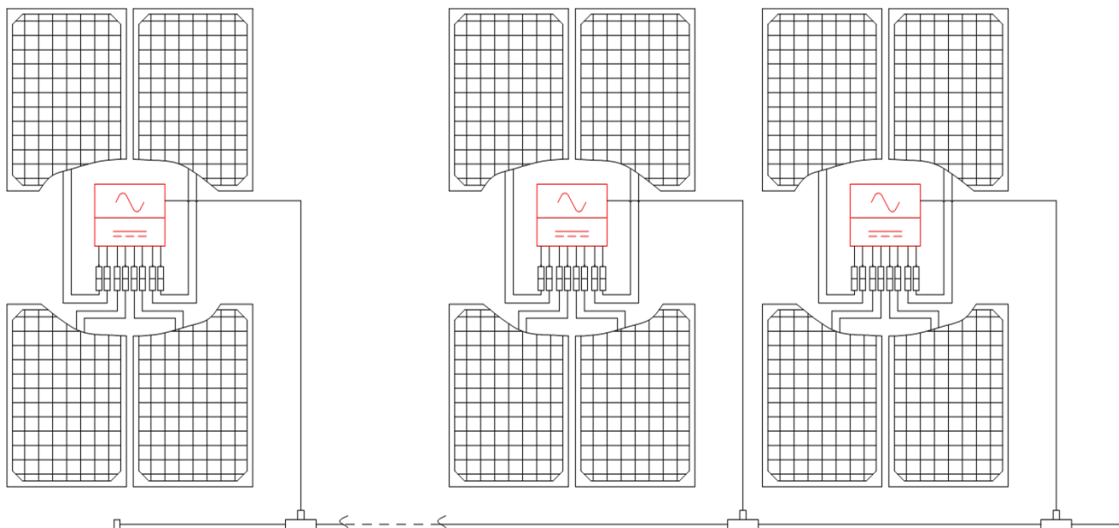
PRODUCT FEATURES

APsystems introduces its 2nd generation of native 3-phase quad microinverters, reaching unprecedented power outputs of 1728VA (for 208V) and 1800VA (for 480V) 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 | QT2-208 | QT2-480 |
| Region | USA/Canada | |

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 | |
| Maximum input short circuit current | 25A per input | |

Output Data (AC)

| | | |
|--|--|--|
| Maximum Continuous Output Power | 1728VA | 1800VA |
| Nominal Output Voltage/Range ⁽¹⁾ | 208V/183V-229V | 480V/422V-528V |
| Adjustable Output Voltage Range | 166V-240V | 385V-552V |
| Nominal Output Current | 4.8Ax3 | 2.17Ax3 |
| Maximum Output Fault Current (ac) And Duration | L-L:85.4Apk, 13.6ms of duration, 4.967Arms | L-L:35.1Apk, 13.9ms of duration, 2.199Arms |
| Nominal Output Frequency/Range ⁽¹⁾ | 60Hz/59.3Hz-60.5Hz | |
| Adjustable Output Frequency Range | 55Hz-65Hz | |
| Power Factor(Default/Adjustable) | 0.99/0.8 leading...0.8 lagging | |
| Maximum Units per 30A branch ⁽²⁾ | 5 | 11 |
| AC Bus Cable | 10AWG | |

Efficiency

| | | |
|-------------------------|-------|-------|
| Peak Efficiency | 96.5% | |
| CEC Efficiency | 96% | 95.5% |
| Nominal MPPT Efficiency | 99.5% | |
| Night Power Consumption | 80mW | 200mW |

Mechanical Data

| | | |
|--|--|--|
| Operating Ambient Temperature Range ⁽³⁾ | -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) | 14" x 9.5" x 1.8" (359mm X 242mm X 46mm) | |
| Weight | 13 lbs (6kg) | |
| DC Connector Type | Stäubli MC4 PV-ADBP4-S2&ADSP4-S2 | |
| Cooling | Natural Convection - No Fans | |
| Enclosure Environmental Rating | Type 6 | |

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 ; 25 Years Optional |

Compliances

| | |
|--------------------------------|--|
| Safety, EMC & Grid Compliances | UL1741; CSA C22.2 No. 1071-16;CA Rule 21 (UL 1741 SA); FCC Part15; ICES-003; IEEE1547; NEC2014&NEC2017&NEC2020 Section 690.11 DC Arc-Fault circuit Protection; NEC2014&NEC2017&NEC2020 Section 690.12 Rapid Shutdown of PV systems on Buildings |
|--------------------------------|--|

(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 usa.APsistemas.com.

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