

QT2D

Doubling the performance of the most powerful 3-phase Quad microinverter

- Designed for 3-phase grid connection
- 4 input channels
- Single unit connects to 8 modules
- Maximum continuous AC output power 3200VA
- Engineered to match the highest power modules available (Maximum input current 20A)
- Safety protection relay integrated
- Adjustable output power factor
- Balancing 3-phase output

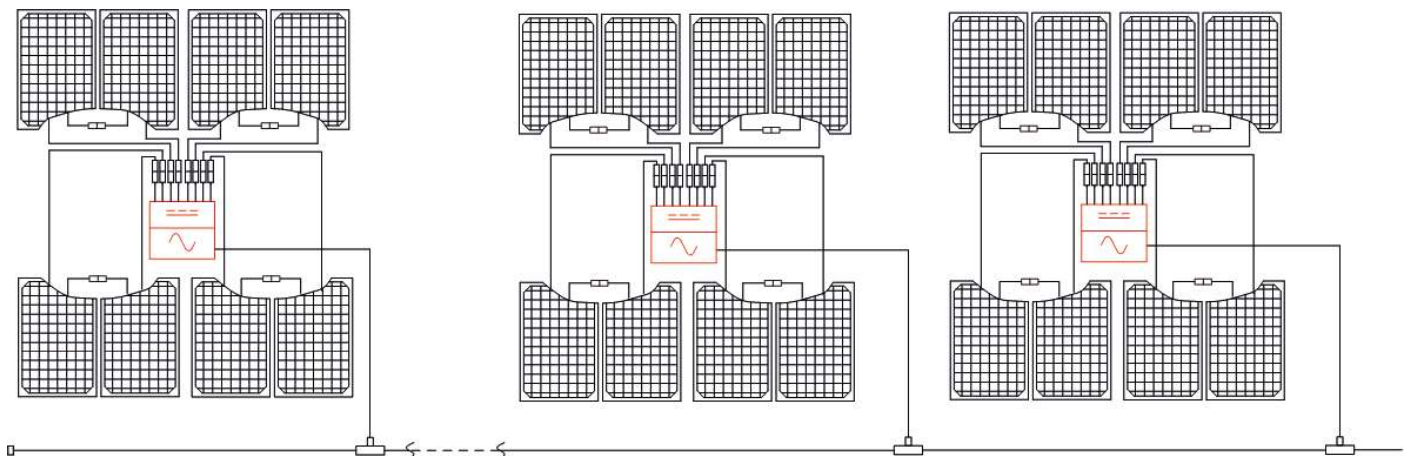
PRODUCT FEATURES

APsystems 2nd generation of native 3-phase microinverters are reaching unprecedented power outputs of 3200VA. Connecting up to 8 high power modules (4 by 2 in series), the QT2D provides a cost-efficient solution ideal for today's fast growing commercial PV segment.

The innovative design makes the product unique while maximizing power production. The components are encapsulated with silicone to reduce stress on the electronics, facilitate thermal dissipation, enhance waterproof properties and ensure maximum reliability of the system via rigorous testing methods including accelerated life testing. A 24/7 energy access through apps or web-based portal facilitate remote diagnosis and maintenance.

The new QT2D is interactive with power grids through a feature referred to as RPC (Reactive Power Control) to better manage photovoltaic power spikes in the grid. In addition, it provides 97% peak efficiency with 20% less components compared to the last generation product. QT2D is a game changer in 3-phase installations for commercial PV rooftops.

WIRING SCHEMATIC



Datasheet | QT2D 3-Phase Microinverter

| | |
|--------|------|
| Model | QT2D |
| Region | APAC |

Input Data (DC)

| | |
|---|--------------|
| Recommended PV Module Power (STC) Range | 315Wp-670Wp+ |
| Peak Power Tracking Voltage | 58V-85V |
| Operating Voltage Range | 52V-118V |
| Maximum Input Voltage | 118V |
| Maximum Input Current | 20A x 4 |

Output Data (AC)

| | |
|--|--------------------------------|
| Maximum Continuous Output Power | 3200VA |
| Nominal Output Voltage/Range ⁽¹⁾ | 380V/324V-468V |
| Adjustable Output Voltage Range | 305V-478V |
| Nominal Output Current | 4.85Ax3 |
| Nominal Output Frequency/Range ⁽¹⁾ | 50Hz/48-51Hz |
| Adjustable Output Frequency Range | 45Hz-55Hz |
| Power Factor (Default/Adjustable) | 0.99/0.8 leading...0.8 lagging |
| Maximum Units per 4mm ² Branch ⁽²⁾ | 6 |

Efficiency

| | |
|-------------------------|-------|
| Peak Efficiency | 97% |
| Nominal MPPT Efficiency | 99.9% |
| 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 273mm X 56mm |
| Weight | 7kg |
| AC Bus Cable | 4mm ² (28A) |
| 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; AS 4777.3; 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.APsystems.com.

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