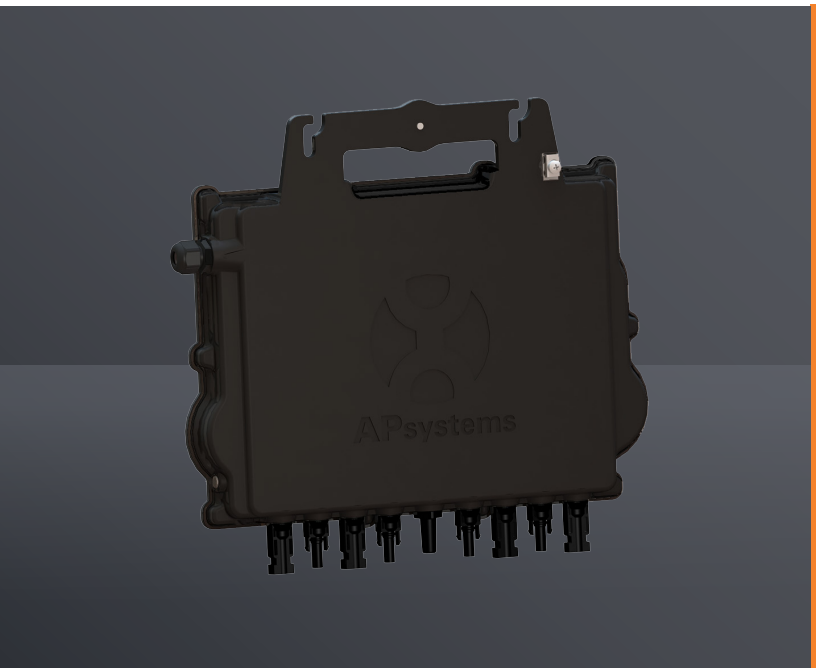
APsystems

Leading the Industry in
Solar Microinverter Technology



QT2D

The most powerful 3-phase 8-in-1 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

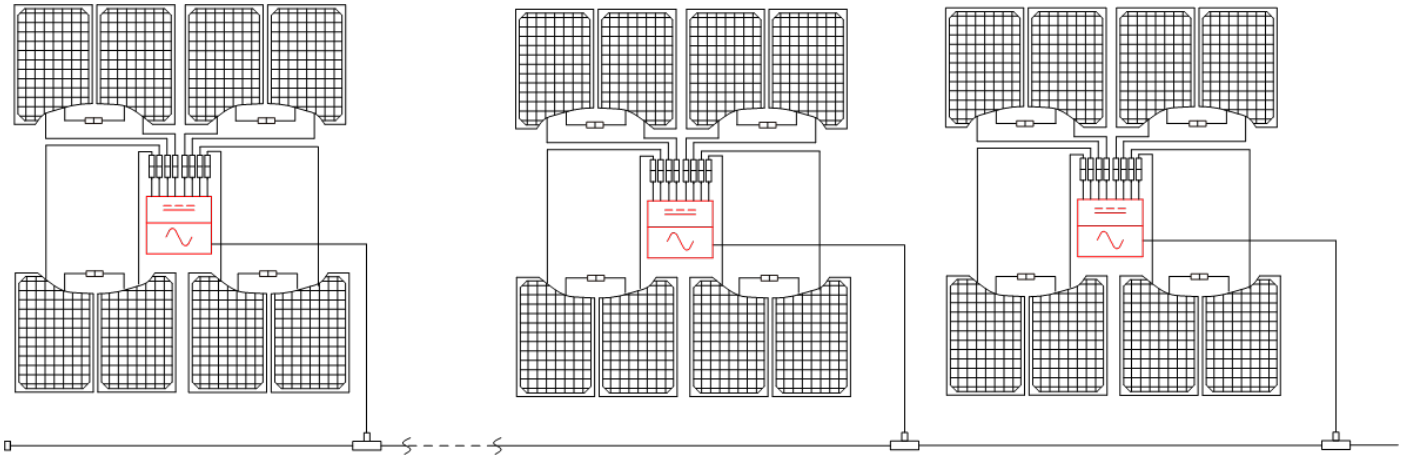
PRODUCT FEATURES

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. With an excellent performance and high converstion efficiency, a unique integration with less components, APsystems QT2D is a game changer in 3-phase installations for commercial PV rooftops.

WIRING SCHEMATIC



Datasheet | QT2D 3-Phase Microinverter

Model	QT2D
Region	EMEA

Input Data (DC)

Recommended PV Module Power (STC) Range	300Wp-670Wp+
Peak Power Tracking Voltage	56V-85V
Operating Voltage Range	52V-118V
Maximum Input Voltage	118V
Maximum Input Current	20A x 4
Isc PV	25A x 4

Output Data (AC)

Maximum Continuous Output Power	3200VA
Nominal Output Voltage/Range(1)	3/N/PE 400V/320V-440V
Nominal Output Current	4.6Ax3
Nominal Output Frequency/ Range(1)	50Hz/48-51Hz
Power Factor (Default/Adjustable)	0.99/0.8 leading...0.8 lagging
Maximum Units per 2.5mm² Branch(2)	5
Maximum Units per 4mm² Branch(2)	6

Efficiency

Peak Efficiency	96.5%
Nominal MPPT Efficiency	99.9%
Night Power Consumption	60mW

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	2.5mm² (23A) / 4mm² (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)	10 Years Standard ; 20 Years Optional

Compliances

Safety, EMC & Grid Compliances	EN 62109-1/-2; EN 61000-6-1/-2/-3/-4; PN-EN 50549-1; EN 50549-1; G98; G99; G98/NI; G99/NI

(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 emea.APsystems.com.

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