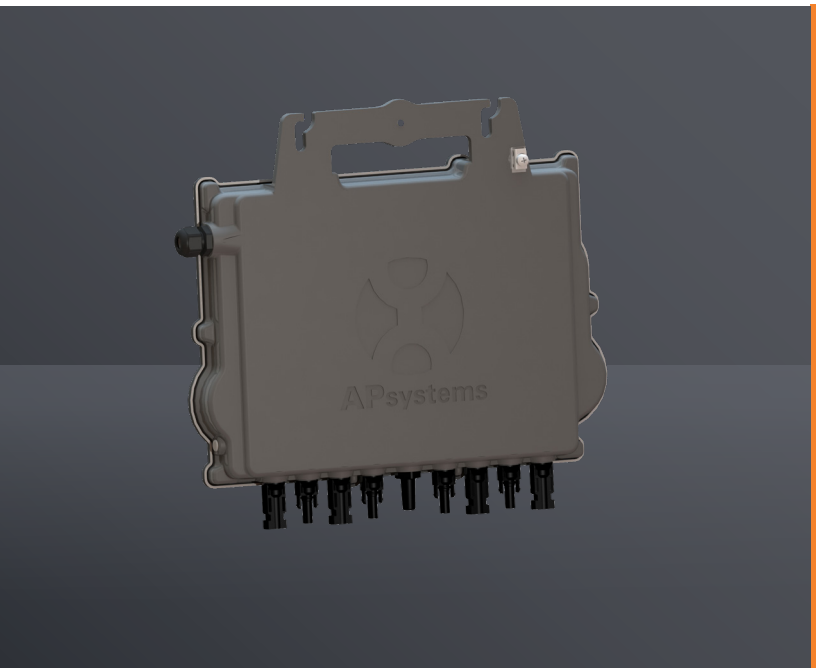
APsystems
ALTENERGY POWER

Leading the Industry in
Solar Microinverter Technology



QT2

The most powerful 3-phase Quad microinverter

- Designed for 3-phase grid connection
- 4 input channels with low DC voltage, 2MPPTs
- Single unit connects to 4 modules
- Maximum continuous AC output power 2000VA
- Engineered to match the highest power modules available (Maximum input current 20A)
- Safety protection relay integrated
- Adjustable output power factor
- Balancing 3-phase output

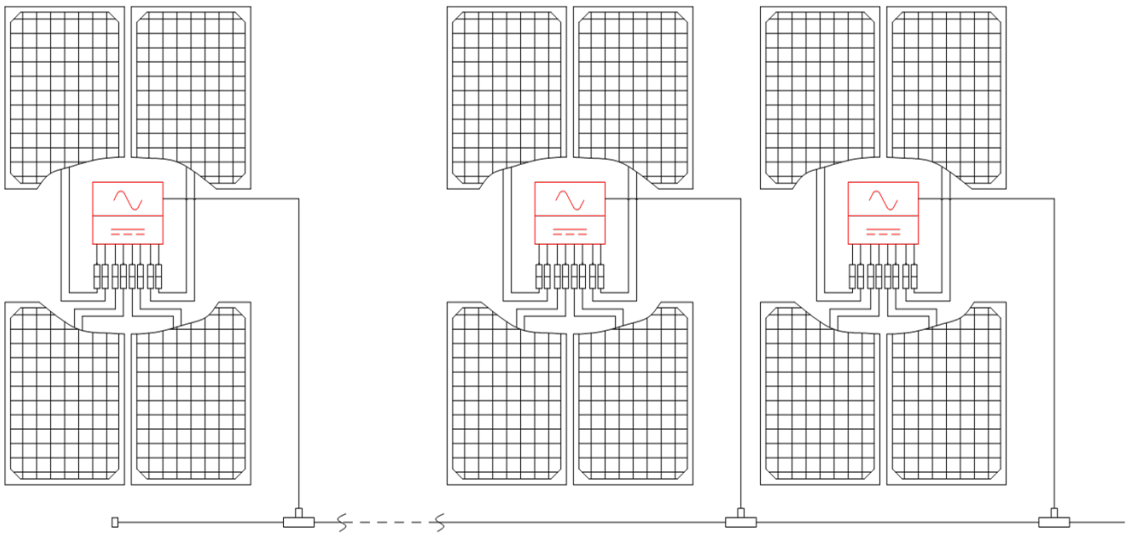
PRODUCT FEATURES

APsystems 2nd generation of native 3-phase quad microinverters are reaching unprecedented power outputs of 2000VA to adapt to today's larger power PV modules. With balancing 3-phase output, 4 DC inputs, encrypted ZigBee signals, the QT2 benefits from an entirely new architecture.

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 QT2 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. QT2 is a game changer in 3-phase installations for both residential and commercial PV rooftops.

WIRING SCHEMATIC



Datasheet | QT2 3-Phase Microinverter

Model	QT2
Region	EMEA

Input Data (DC)

Recommended PV Module Power (STC) Range	315Wp-670Wp+
Peak Power Tracking Voltage	28V-45V
Operating Voltage Range	26V-60V
Maximum Input Voltage	60V
Startup Voltage	22V
Maximum Input Current	20A x 4
Isc PV	25A x 4

Output Data (AC)

Maximum Continuous Output Power	2000VA
Nominal Output Voltage/Range(1)	3/N/PE 400V/319V-438V
Adjustable Output Voltage Range	277V-478V
Nominal Output Current	2.9Ax3
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 2.5mm² Branch(2)	6

Efficiency

Peak Efficiency	97%
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
AC Bus Cable	2.5mm²(20A)
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 61000-1/-2/-3/-4; EN 50549-1; PN-EN 50549-1; DIN VDE 0126-1-1; VFR 2019; UTE C15-712-1; VDE-AR-N 4105; UNE 217002; NTS; RD647; pending: CEI 0-21

(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.

Specifications subject to change without notice please ensure you are using the most recent update found at web : emea.APsystems.com

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