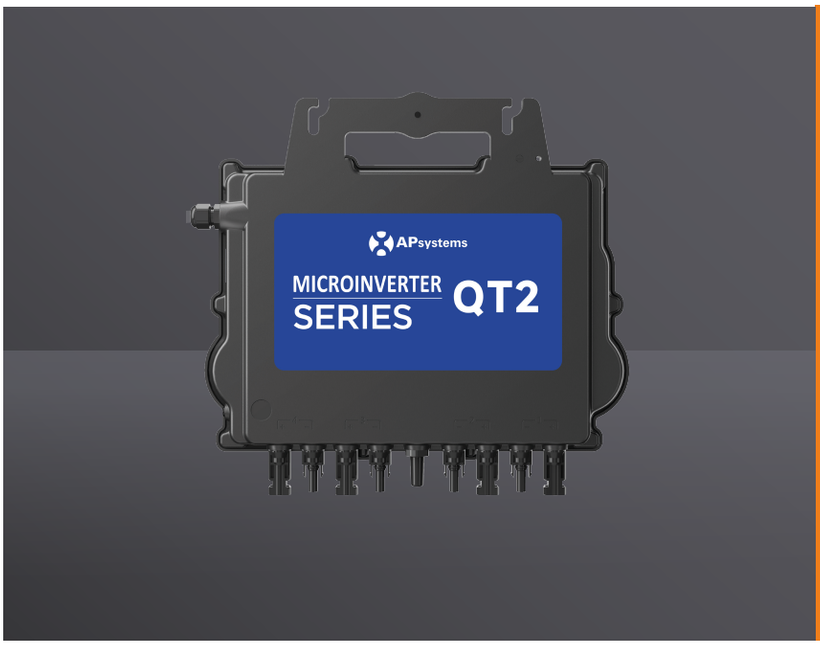
APsystems

Leading the Industry in
Solar Microinverter Technology



QT2

The most powerful 3-phase Quad microinverter

- Designed for 3-phase grid connection (208V, 480V)
- Single unit connects to 4 modules, 2 MPPTs, module-level DC voltage
- Maximum continuous AC output power 1728VA @ 230V, 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
- Compatible with both △ and Y 3-phase grid

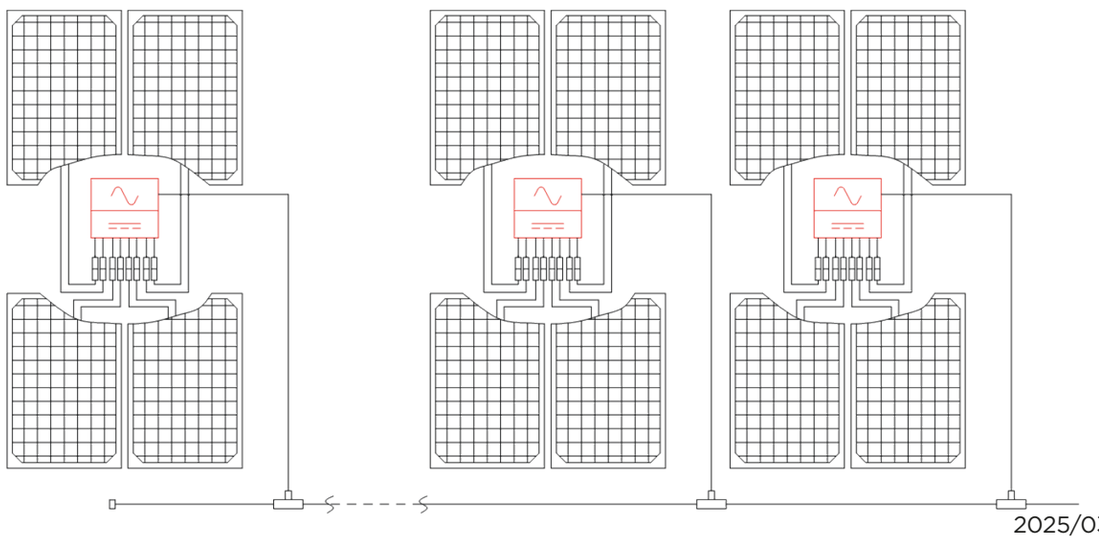
PRODUCT FEATURES

APsystems introduces its 2nd generation of native 3-phase quad microinverters, reaching unprecedented power outputs of 1728VA (for QT2-230) and 2000VA (for QT2-400) 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 converstion efficiency, a unique integration with less components, the QT2 is a game changer for commercial solar.

WIRING SCHEMATIC



2025/03/27 Rev1.5

Datasheet | QT2 3-Phase Microinverter

Model	QT2-230	QT2-400
Region	Philippines etc.	

Input Data (DC)

Recommended PV Module Power (STC) Range	315Wp-670Wp+	
Peak Power Tracking Voltage	30V-45V	32V-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	2000VA
Nominal Output Voltage/Range(1)	230V/207V-250V	400V/360V-440V
Nominal Output Current	4.34Ax3	2.9Ax3
Nominal Output Frequency(1)	60Hz	
Power Factor(Default/Adjustable)	0.99/0.8 leading...0.8 lagging	
Maximum Units per 10AWG branch(2)	9	13
AC Bus Cable	10AWG (40A)	

Efficiency

Peak Efficiency	95%
Nominal MPPT Efficiency	99.5%
Night Power Consumption	40mW

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” × 9.5” × 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	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 & Grid Compliances	UL1741; CA Rule 21 (UL 1741 SA); UL 1741SB; IEEE1547;

(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.

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

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