

QT2-220

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 1900VA
- Engineered to match the highest power modules available (Maximum input current 20A)
- Safety protection relay integrated
- Adjustable output power factor
- Balancing 3-phase output

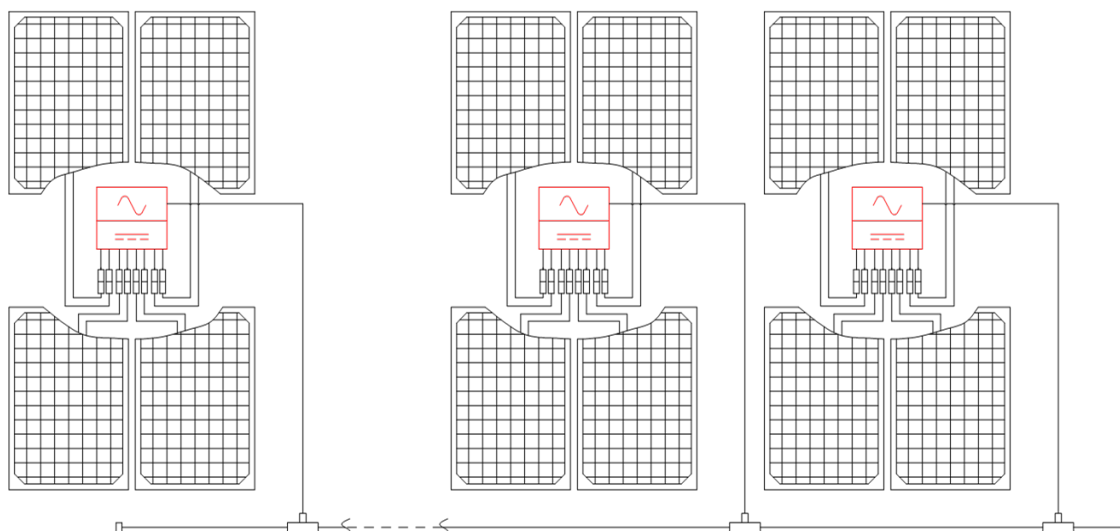
PRODUCT FEATURES

APsystems 2nd generation of native 3-phase quad microinverters are reaching unprecedented power outputs of 1900VA to adapt to today's larger power PV modules. With balancing 3-phase output, 4 DC inputs, encrypted ZigBee signals, the QT2-220 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 QT2-220 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 conversion efficiency, a unique integration with less components. QT2-220 is a game changer in 3-phase installations for both residential and commercial PV rooftops.

WIRING SCHEMATIC



Datasheet | QT2-220 3-Phase Microinverter

Model	QT2-220
Region	Brazil

Input Data (DC)

Recommended PV Module Power (STC) Range	315Wp-670Wp+
Peak Power Tracking Voltage	32V-45V
Operating Voltage Range	26V-60V
Maximum Input Voltage	60V
Maximum Input Current	20A x 4
Isc PV	25A x 4

Output Data (AC)

Maximum Continuous Output Power	1900VA
Nominal Output Voltage/Range ⁽¹⁾	220V,3-/176V-246.4V
Adjustable Output Voltage Range	170V-264V
Nominal Output Current	5Ax3
Nominal Output Frequency/ Range ⁽¹⁾	60Hz/57.4-62.6Hz
Adjustable Output Frequency Range	55Hz-65Hz
Maximum AC current absorbed	<0.2A
Maximum Units per 2.5mm ² Branch ⁽²⁾	4

Efficiency

Peak Efficiency	96.47%
Nominal MPPT Efficiency	99.5%
Night Power Consumption	87mW

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	2.5mm ² (23A)
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⁾	15 Years Standard ; 25 Years Optional

Compliances

Safety, EMC & Grid Compliances	ABNT NBR 16149:2013; ABNT NBR 16150; PORTARIA N° 140, DE 21 DE MARÇO DE 2022
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(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 latam.apsystems.com.

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