



## QT2

### The most powerful 3-phase 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

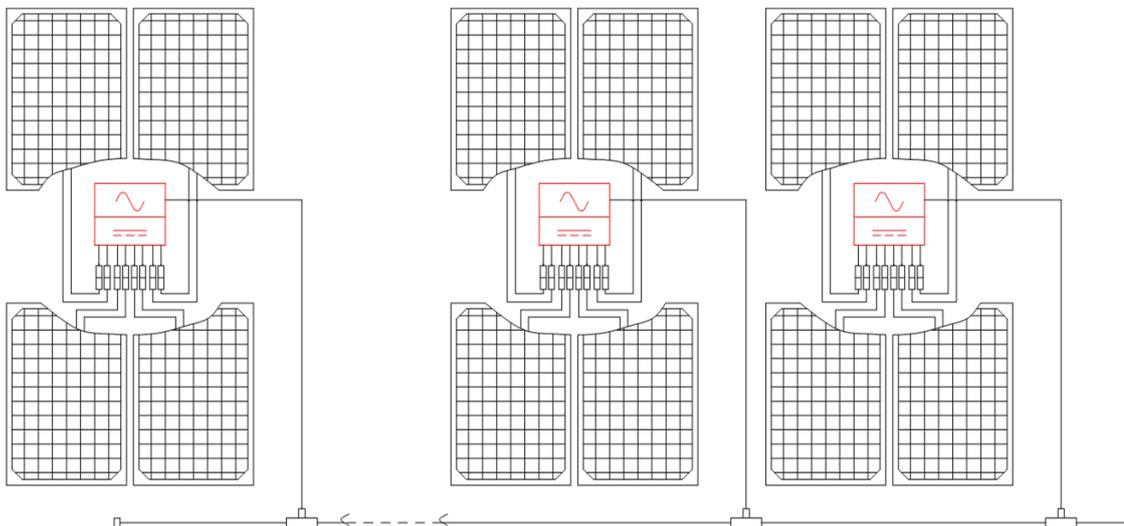
## PRODUCT FEATURES

**APsystems 2<sup>nd</sup> generation of native 3-phase 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 96.5% 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

Australia, New Zealand

## Input Data (DC)

Recommended PV Module Power (STC) Range	315Wp-670Wp+
Peak Power Tracking Voltage	30V-45V
Operating Voltage Range	26V-60V
Max Input DC Power	2100W
Maximum Input Voltage	60V
Maximum Input Current	20A x 4
Input Start-up Voltage	30V
Isc PV(absolute maximum)	25A x 4
Max. inverter backfeed current to the array	0A
Over voltage category PV	OVC II

## Output Data (AC)

Rated Apparent Power	2000VA
Nominal Output Voltage/Range <sup>(1)</sup>	400VAC,3-/312V-459V
Adjustable Output Voltage Range	277V-478V
Rated Current	2.9Ax3
Nominal Output Frequency/ Range <sup>(1)</sup>	50Hz/47-52Hz
Adjustable Output Frequency Range	45Hz-55Hz
Power Factor(Default/Adjustable)	0.99/0.8 leading...0.8 lagging
Maximum Units per 4mm <sup>2</sup> Branch <sup>(2)</sup>	9
Inrush Current	35A
Maximum output overcurrent protection	6.3A
Protective class	I
Over voltage category Mains	OVC III
Frequency band of operation	2400 to 2483.5MHz
Maximum transmit power	9.85dBm EIRP

## Efficiency

Peak Efficiency	96.5%
Nominal MPPT Efficiency	99.5%
Night Power Consumption	40mW

## Mechanical Data

Operating Ambient Temperature Range <sup>(3)</sup>	- 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	4mm <sup>2</sup>
DC Connector Type	Stäubli MC4 PV-ADBP4-S2&ADSP4-S2
Cooling	Natural Convection - No Fans
Enclosure Environmental Rating	IP67

## Features

Communication (Inverter To ECU) <sup>(4)</sup>	Encrypted ZigBee
Active anti-islanding method	Frequency shift
Isolation Design	High Frequency Transformers, Galvanically Isolated
Inverter Topology	Isolated
Energy Management	Energy Management Analysis (EMA) system
Warranty <sup>(5)</sup>	12 Years Standard ; 25 Years Optional
Relative humidity ratings	4%-100%
Maximum altitude rating	<2000m
Pollution degree	2
Class of equipment	Class I
Environment category	Outdoor

## Compliances

Safety, EMC & Grid Compliances	AS/NZS 4777.2; IEC 62109-1, IEC 62109-2; EN 61000-6-3; EN 61000-6-4
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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) If the product is not continuously connected to the internet via the ECU, the warranty coverage will be limited to a 2-year legal warranty starting from the date of shipment from APsystems and cannot be extended.

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## APsystems Australia

Made in China

ALTENERGY POWER SYSTEM Inc.

WEB: [global.APsistemas.com](http://global.APsistemas.com)

APsystems Australia

Suite 502, 8 Help Street, Chatswood NSW 2067 Australia

TEL: 61 (0)2-8034-6587

EMAIL: [info.aunz@apsistemas.com](mailto:info.aunz@apsistemas.com)