

## QT2

### The most powerful quad three-phase microinverter

- Designed for 3-phase grid connection • 4 low voltage DC input channels, 2 MPPT • One micro connects to 4 PV modules
- Max continuous AC output power of 2000 VA
- Ideal for high power PV modules (maximum input current 20A) • Built-in safety protection relay • Adjustable power factor • Three-phase output balancing

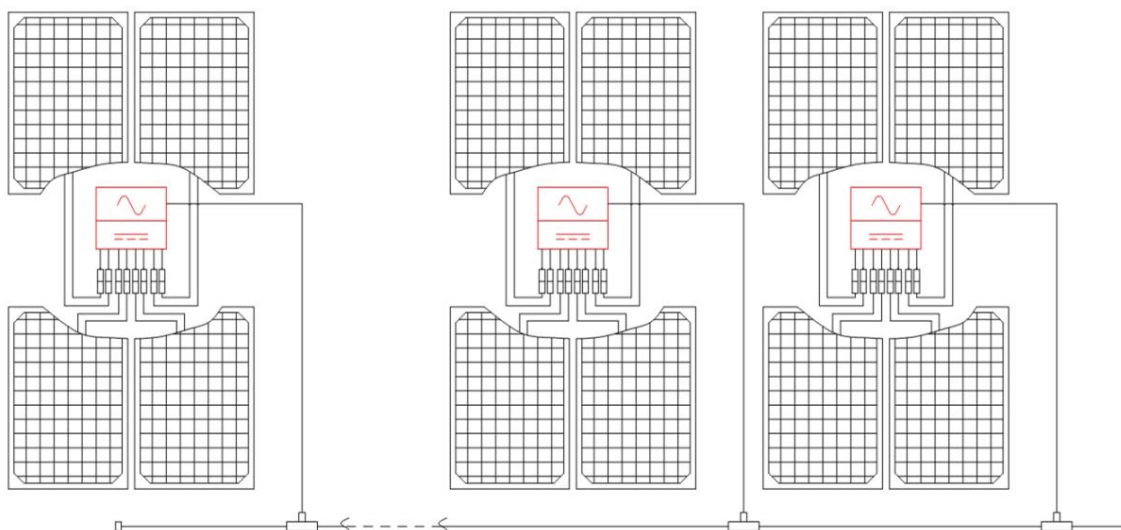
## PRODUCT CHARACTERISTICS

The 2nd generation of APsystems' native three-phase quad microinverters achieves an unprecedented output power of 2000 VA to adapt to today's high-power PV module needs. With a balanced three-phase output, 4 DC inputs, encrypted ZigBee signals, the QT2 benefits from a brand new architecture.

The innovative design makes the product unique while maximizing energy production. Components are encapsulated with silicone to reduce stress on electronics, aid heat dissipation, improve sealing properties, and ensure maximum system reliability through rigorous testing methods, including lifetime testing accelerated. 24/7 energy access via apps or a web portal facilitates remote diagnostics and maintenance.

The new QT2 is interactive with power grids with Power Factor Management (RPC) functionality to better manage photovoltaics and power spikes in the grid. In addition, it offers 97% efficiency with 20% fewer components compared to the last generation product. The QT2 is a game-changer in three-phase installations for residential and industrial or tertiary photovoltaic rooftops.

## CABLE SCHEMATICS



## Data Sheet | Three-phase QT2 microinverter

<b>Model</b>	<b>QT2</b>
<b>Geographical area</b>	<b>EMEA</b>

### Input data (DC)

Recommended module power (STC) per DC input	315Wp-670Wp+
MPPT Voltage Range	28V-45V
Operating voltage range	26V-60V
Maximum DC input voltage	60V
starting voltage	22V
Maximum DC input current	20A x 4
Isc PV	25A x 4

### Output data (AC)

Maximum output power	2000VA
Rated output voltage(1)	3/N/PE 400V/319V-438V
Output voltage range	277V-478V
Rated output current	2.9Ax3
Maximum frequency variation range(1)	50Hz/48-51Hz
Output frequency range	45Hz-55Hz
Power Factor (Adjustable)	0.99/0.8 lead...0.8 lag
Maximum number of units per branch of 2.5mm <sup>2</sup> (2)	6

### Yield

Efficiency maximum	97%
Nominal MPPT efficiency	99.5%
Night power consumption	40mW

### Mechanical data

Operating Ambient Temperature Range(3)	- 40 °C to + 65 °C
Internal operating temperature range	- 40 °C to + 85 °C
Dimensions	359mm X 242mm X 46mm
Weight	6kg
AC output cable section	2.5mm <sup>2</sup> (20A)
Type of connectors	Stäubli MC4 PV-ADBP4-S2&ADSP4-S2
Cooling system	Convection - No Fan
Protection sign	IP67

### Features

Communication (between micro-inverters and ECU)(4)	Encrypted Zigbee communications
Transformer type	High frequency transformer, galvanically isolated
Monitoring	Energy Management Analysis (EMA) system
Warranty(5)	10 years standard; 20 years optional

### Compliance

Electrical network compliance, Safety and EMS	EN 62109-1; EN 62109-2; EN 61000-6-1; EN 61000-6-3; UNE217002, UNE206007-1, RD647, RD1699, RD413; CEI 0-21; VDE0126-1-1,VFR2019,UTE C15-712-1,ERDF-NOI-RES_13E; EN 50549-1; VDE-AR-N 4105
---	---

(1) The voltage frequency range can be extended beyond if requested by the energy supplier.

(2) The maximum number of units per branch may vary. Refer to local requirements.

(3) The micro-inverter may enter degraded production mode in the case of an installation that does not allow good ventilation or heat dissipation.

(4) It is recommended to connect a maximum of 80 micro inverters to one gateway ECU for stable communication.

(5) To benefit from the warranty, APsystems microinverters must be supervised via the EMA portal.

Please refer to our warranty terms and conditions available at [emea.apsystems.com](http://emea.apsystems.com)



© All rights reserved

Specifications subject to change without notice, make sure you have the most recent version, posted on our website: [emea.apsystems.com](http://emea.apsystems.com)

### APsystems European

#### Offices

Karspeldreef 8, 1101 CJ, Amsterdam, The Netherlands Email: [emea@apsystems.com](mailto:emea@apsystems.com)

### APsystems

244c rue du Point du Jour 01000 Saint Denis lès Bourg, France  
Email: [emea@apsystems.com](mailto:emea@apsystems.com)