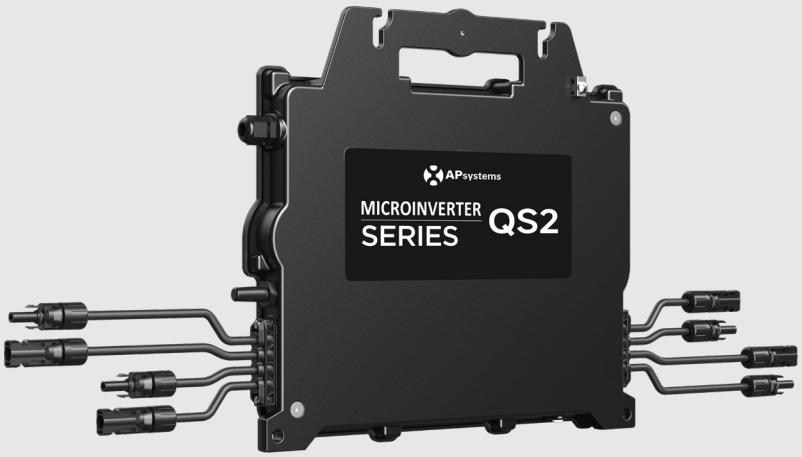
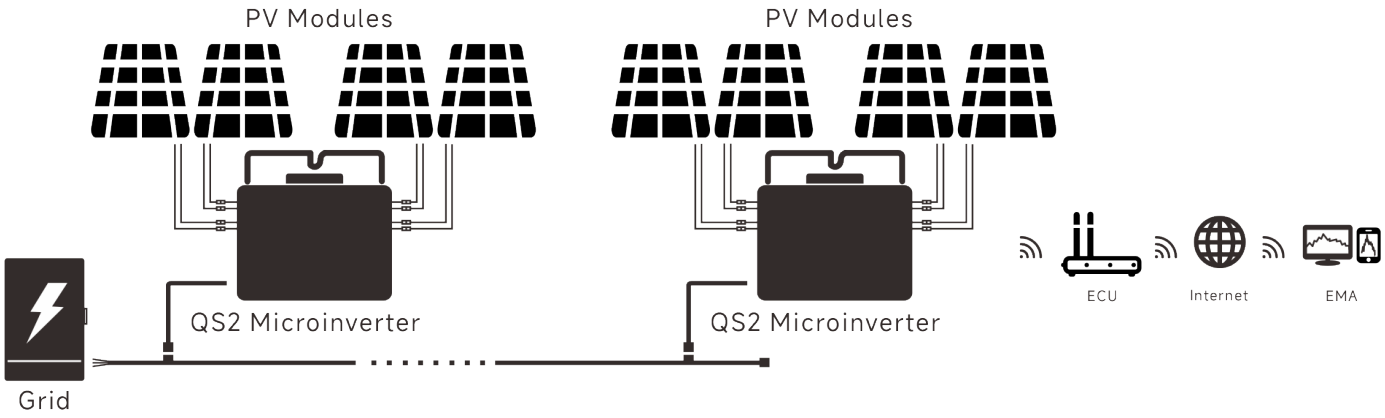


QS2

Single-phase Quad Microinverter

- 2200VA designed for high Power PV modules
- 2nd generation platform with encrypted zigbee
- 4 independent MPPTs
- Compatible with DS3 & QS1

WIRING SCHEMATIC



Features

High productivity

- Optimized for the latest high-powered PV modules
- Maximum continuous output power up to 2200VA
- 99.5% MPPT Efficiency, 96% Peak Efficiency

Smart Design

- Single unit connects to 4 modules
- 4 input channels with independent MPPT and monitoring function
- Encrypted wireless communication
- Compatible with our DS3 series to maximize flexibility and cost-efficiency
- For residential and commercial rooftops

Proven Safety

- 60V low DC voltage, complying with Rapid shutdown require ment by design
- Safety protection relay integrated
- High frequency transformers, and Galvanically isolated design
- Multiple grounding solutions including grounding wire/lug/ washer

High Reliability

- Encapsulated with silicone to reduce stress on electronics, facilitate thermal dissipation, IP67 rating
- Rigorous testing including accelerated life testing

Datasheet | QS2 Microinverter

Model	QS2
Region	EMEA

Input Data (DC)

MPPT Voltage Range	28V-48V
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	2200VA
Nominal Output Voltage/Range(1)	230V/184V-264V
Nominal Output Current	9.6A
Nominal Output Frequency/ Range(1)	50Hz/48Hz-52Hz
Power Factor(Default/Adjustable)	0.99/0.9 leading...0.9 lagging
Maximum Units per 4mm² AC Bus Cable(2)	2
Zigbee Frequency Range	2405MHz - 2480MHz
Zigbee Maximum Power (EIRP)	9.97 dBm

Efficiency

Peak Efficiency	96.00%
Nominal MPPT Efficiency	99.50%
Night Power Consumption	20mW

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)	365mm×272mm×40.6mm
Weight	6.6kg
DC Connector Type	Stäubli MC4 PV-KBT4&KST4
Cooling	Natural Convection - No Fans
Enclosure Environmental Rating	IP67
Pollution Degree Classification	PD3
Operate Relative Humidity Range	4%~100%
Maximum Altitude	<2000m
Overvoltage Category	OVC II For PV Input Circuit, OVC III For Mains Circuit
Warranty	12 Years Standard ; 25 Years Optional

Features

Communication (Inverter To ECU)(4)	Encrypted ZigBee
Isolation Design	High Frequency Transformers, Galvanically Isolated
Energy Management	EMA web portal, EMA Mananger, EMA APP

Compliance

Safety, EMC & Grid Compliances	EN 62109-1; EN 62109-2; EN IEC 61000-6-1; EN IEC 61000-6-2; EN IEC 61000-6-3; EN IEC 61000-6-4; EN IEC 61000-3-2; EN 61000-3-3; EN 55011; EN 62920; EN 50549-1; NF EN 50549-1; EN 50549-10; NF EN 50549-10;G98; G99; G98/NI; G99/NI; UNE 217001; UNE 217002; NTS

(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.

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