



## DS3-H

### The most powerful Dual Microinverter

- One microinverter connects to two solar modules
- Max output power reaching 1050W
- Two input channels with independent MPPT
- Large input current to adapt to large modules
- Reactive Power Control
- Maximum reliability, Type 6
- Encrypted ZigBee Communication
- Safety protection relay integrated

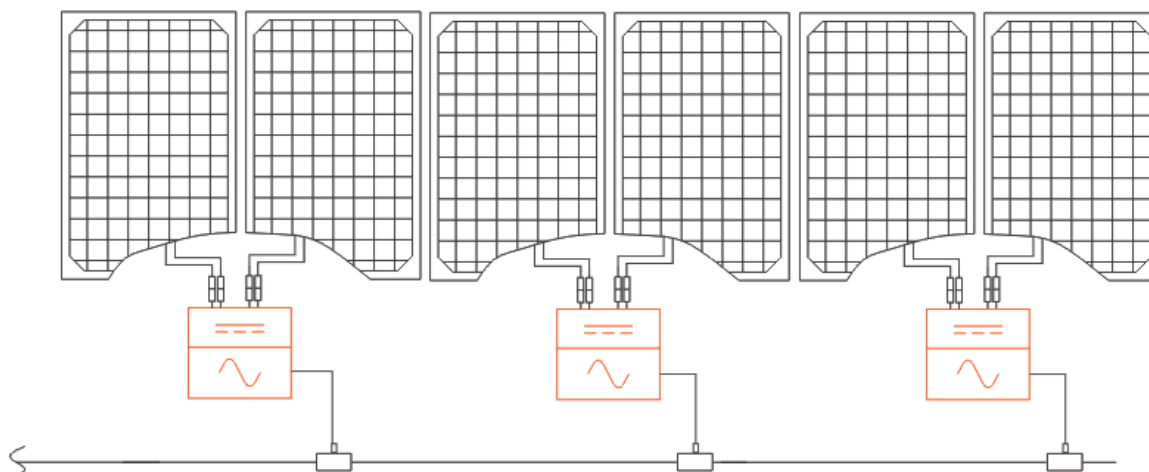
## PRODUCT FEATURES

**APsystems 3<sup>rd</sup> generation dual microinverters benefit from an entirely new architecture. With 2 independent MPPT, large input current and output power, the DS3 series products adapt to today's high power modules.**

The innovative and compact design make the product lighter 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 DS3 series 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, APsystems DS3-H are a game changer to residential and commercial PV.

## WIRING SCHEMATIC



# Datasheet | DS3-H Microinverter

Model	DS3-H
Region	LATAM

## Input Data (DC)

Recommended PV Module Power (STC) Range	330Wp-660Wp+
Peak Power Tracking Voltage	28V-45V
Operating Voltage Range	26V-60V
Maximum Input Voltage	60V
Maximum Input Current	20A x 2
Maximum input short circuit current	25A per input

## Output Data (AC)

Maximum Continuous Output Power	1050W
Nominal Output Voltage/Range <sup>(1)</sup>	240V/211V-264V
Nominal Output Current	4.4A
Nominal Output Frequency/ Range <sup>(1)</sup>	60Hz/59.3Hz-60.5Hz
Power Factor(Default/Adjustable)	>0.99
Total Harmonic Distortion	<3%
Maximum Units per 12AWG Branch <sup>(2)</sup>	6
Maximum Units per 10AWG Branch <sup>(2)</sup>	7

## Efficiency

Peak Efficiency	97.3%
CEC Efficiency	97%
Nominal MPPT Efficiency	99.5%
Night Power Consumption	20mW

## Mechanical Data

Operating Ambient Temperature Range <sup>(3)</sup>	-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)	10.3" x 8.6" x 1.7" (263mm x 218mm x 42.5mm)
Weight	6.8lbs(3.1kg)
AC Bus Cable	10AWG(35A) / 12AWG(28A)
DC Connector Type	MC4 Compatible
Cooling	Natural Convection - No Fans
Enclosure Environmental Rating	Type 6

## Features

Communication (Inverter To ECU) <sup>(4)</sup>	Encrypted ZigBee
Isolation Design	High Frequency Transformers, Galvanically Isolated
Energy Management	Energy Management Analysis (EMA) system
Warranty <sup>(5)</sup>	12 Years Standard ; 25 Years Optional

## Compliance

Compliance	UL1741 (IEEE1547); CSA C22.2 No. 107.1-16; NOM-001 NEC2014&NEC2017&NEC2020 Section 690.12 Rapid Shutdown of PV systems on Buildings
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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](http://latam.APsystems.com).

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Specifications subject to change without notice please ensure you are using the most recent update found at web : [latam.APsystems.com](http://latam.APsystems.com).

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