



## DS3-H

### The most powerful Dual Microinverter

- One microinverter connects to two modules
- Max output power reaching 960VA or 1050VA
- Two input channels with independent MPPT
- Reactive Power Control
- Maximum reliability, Type 6
- Encrypted ZigBee Communication
- Safety protection relay integrated

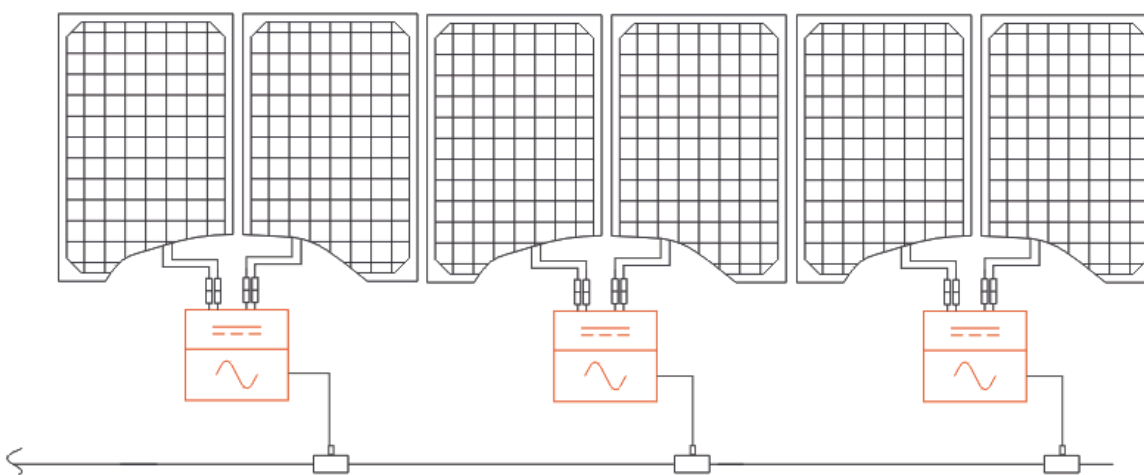
## PRODUCT FEATURES

**APsystems 3<sup>rd</sup> generation of dual microinverters are reaching unprecedented power outputs of 960VA or 1050VA to adapt to today's larger power module. With 2 independent MPPT, encrypted ZigBee signals, the DS3-H benefit from an entirely new architecture.**

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-H 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 is a game changer to residential and commercial PV.

## WIRING SCHEMATIC



## Datasheet | DS3-H Microinverter Series

### Model

DS3-H

### Region

Philippines etc.

### Input Data (DC)

Recommended PV Module Power (STC) Range	450Wp-730Wp+
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	960VA/1050VA
Nominal Output Voltage/Range <sup>(1)</sup>	240V/211-264V
Nominal Output Current	4.4A
Nominal Output Frequency/Range <sup>(1)</sup>	60Hz/58.8Hz-61.2Hz
Power Factor(Default/Adjustable)	0.99/0.8 leading...0.8 lagging
Maximum Units per 10AWG Branch <sup>(2)</sup>	7
Maximum Units per 12AWG Branch <sup>(2)</sup>	6

### Efficiency

Peak Efficiency	97%
CEC Efficiency	96.5%
Nominal MPPT Efficiency	99.5%
Night Power Consumption	20mW

### 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)	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	Stäubli MC4 PV-ADBP4-S2&ADSP4-S2
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

### Compliances

Safety, EMC & Grid Compliances	UL1741; CA Rule 21 (UL 1741 SA); IEEE1547
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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 [global.APsystems.com](http://global.APsystems.com).

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

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