APsystems

Leading the Industry in
Solar Microinverter Technology



DS3-H

The most powerful Dual Microinverter

- One microinverter connects to two modules
- Max output power reaching 1050VA
- Two input channels with independent MPPT
- Reactive Power Control
- Maximum reliability, IP67
- Encrypted ZigBee Communication
- Safety protection relay integrated

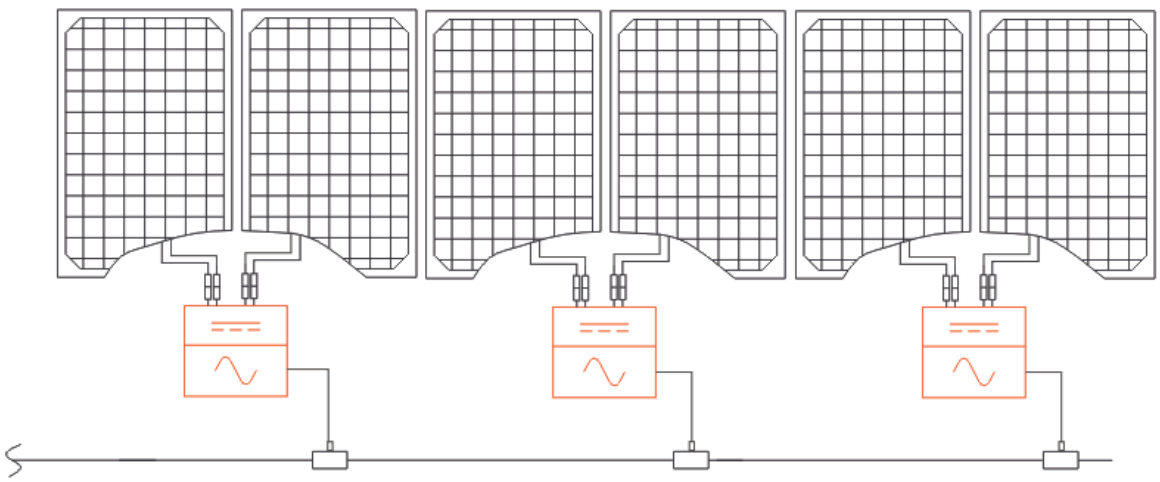
PRODUCT FEATURES

APsystems 3rd generation of dual microinverters are reaching unprecedented power outputs of 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 and are fully backwards compatible with the QS1 and YC600 microinverters.

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 converstion efficiency, a unique integration with less components, APsystems DS3-H are a game changer to residential and commercial PV.

WIRING SCHEMATIC



2025/12/10 Rev1.5

Datasheet | DS3-H Microinverter Series

Model	DS3-H
Region	Brasil

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
Isc PV	20A x 2

Output Data (AC)

Maximum Continuous Output Power	1050VA
Nominal Output Voltage/Range(1)	220V/ 176V-246.4V
Nominal Output Current	4.8A
Nominal Output Frequency/ Range(1)	60Hz/57.4Hz-62.6Hz
Maximum AC current absorbed	<0.2A
Maximum Units per 4mm² Branch(2)	5

Efficiency

European Efficiency	95.0%
Peak Efficiency	96.5%
Nominal MPPT Efficiency	99.5%
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)	263mm x 218mm x 42.5mm/37mm
Weight	3.2kg
AC Bus Cable	4mm²(28A)
DC Connector Type	Stäubli MC4 PV-ADBP4-S2&ADSP4-S2
Cooling	Natural Convection - No Fans
Enclosure Environmental Rating	IP67

Features

Communication (Inverter To ECU)(4)	Encrypted ZigBee
Isolation Design	High Frequency Transformers, Galvanically Isolated
Energy Management	Energy Management Analysis (EMA) system
Warranty(5)	15 Years Standard ; 25 Years Optional

Compliances

Safety, EMC & Grid Compliances	ABNT NBR 16149:2013; ABNT NBR 16150:2013; PORTARIA N° 140, DE 21 DE MARCO DE 2022; PORTARIA N° 515, DE 10 DE NOVEMBRO DE 2023

(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.

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