



DS3D

Microinverter

- 2 input channels with independent MPPT and monitoring function
- Single unit connects to four modules
- Maximum continuous output power up to 2000W
- Safety protection relay integrated

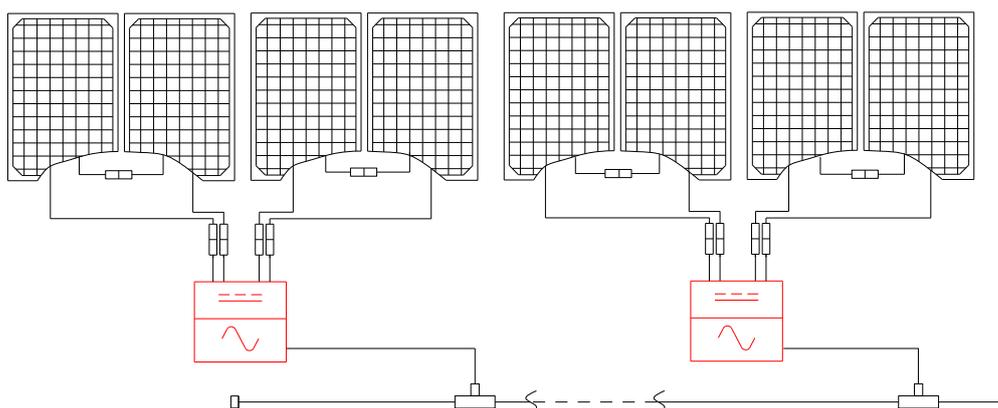
PRODUCT FEATURES

APsystems 3rd generation of dual microinverters DS3D is reaching unprecedented power outputs of 2000W to adapt to today's larger power module. With 2 independent MPPTs, encrypted Zigbee signal, the DS3D benefits 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.

With a performance and an efficiency of 97%, a unique integration with 20% less components, APsystems DS3D is a game changer to residential and commercial PV.

WIRING SCHEMATIC



DS3D Microinverter Datasheet

Region

LATAM

Input Data (DC)

Recommended PV Module Power (STC) Range

315Wp-670Wp+

Peak Power Tracking Voltage

64V-110V

Operating Voltage Range

52V-120V

Maximum Input Voltage

120V

Maximum Input Current

20A x 2

Output Data (AC)

Maximum Continuous Output Power

2000W

Nominal Output Voltage/Range*

240V/211-264V

Adjustable Output Voltage Range

170V-278V

Nominal Output Current

8.3A

Nominal Output Frequency/ Range*

60Hz/59.3Hz-60.5Hz

Adjustable Output Frequency Range

55Hz-65Hz

Output Power Factor

>0.99

Maximum Units per 30A Branch**

3

Efficiency

Peak Efficiency

97%

CEC Efficiency

96.7%

Nominal MPPT Efficiency

99.5%

Night Power Consumption

20mW

Mechanical Data

Operating Ambient Temperature Range

-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)

11" × 9" × 2" (283mm X 233mm X 48.4mm)

Weight

8.4lbs(3.8kg)

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)

Encrypted ZigBee

Isolation Design

High Frequency Transformers, Galvanically Isolated

Energy Management

Energy Management Analysis (EMA) system

Compliances

Compliance

UL1741 (IEEE1547); FCC Part15; CSA C22.2 No. 107.1-16;
NOM-001

*Nominal voltage/frequency range can be extended beyond nominal if required by the utility.

**Limits may vary. Refer to local requirements to define the number of microinverters per branch in your area.

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