

Solar Microinverter Technology



DS3-M The most powerful Dual **Microinverter**

- One microinverter connects to two modules

- Maximum reliability, IP67
- Encrypted ZigBee Communication
- Safety protection relay integrated

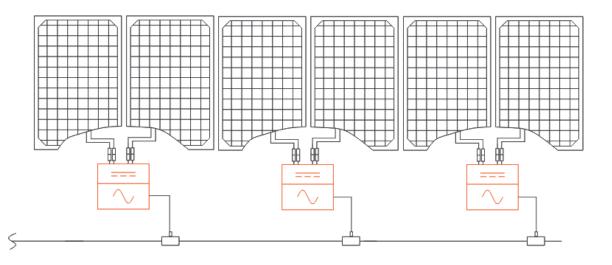
PRODUCT FEATURES

APsystems 3rd generation of dual microinverters are reaching unprecedented power outputs of 799VA to adapt to today's larger power module. With 2 independent MPPT, encrypted ZigBee signals, the DS3-M 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 a performance and an efficiency of 97.3%, a unique integration with 20% less components, APsystems DS3-M is a game changer to residential and commercial PV.

WIRING SCHEMATIC



Datasheet | DS3-MMicroinverter

Model	DS3-M
Region	EMEA
Input Data (DC)	
Peak Power Tracking Voltage	28V-45V
Operating Voltage Range	16V-60V
Maximum Input Voltage	60V
Maximum Input Current	20A x 2

Output Data (AC)

Maximum Continuous Output Power	799VA
Nominal Output Voltage/Range ⁽¹⁾	230V/184V-253V
Nominal Output Current	3.5A
Nominal Output Frequency/ Range ⁽¹⁾	50Hz/48Hz-51Hz
Power Factor(Default/Adjustable)	0.99/0.8 leading0.8 lagging
Maximum Units per 2.5mm ² Branch ⁽²⁾	6

Efficiency

Peak Efficiency	97.3%
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
Weight	3.1kg
AC Bus Cable	2.5mm ² (23A)
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⁾	10 Years Standard ; 20 Years Optional

Compliances

Safety, EMC & Grid Compliances

(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 arec
 (3) The inverter may enter to power de-grade mode under poor ventilation and heat dissipation installation

(a) The interfer may crite to power de grade mode under poor echandian and near dissipation instance 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.

European offices

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EN 62109-1/-2; EN 61000-6-1/-2/-3/-4; VDE-AR-N 4105 CE © All Rights Reserved Specifications subject to change without notice please ensure you are using the

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