

Leading the Industry in **Solar Microinverter Technology**



DS3

The most powerful Dual Microinverter

- One microinverter connects to two modules
- Max output power reaching 730VA or 880VA
- Two input channels with independent MPPT
- Reactive Power Control
- Maximum reliability, IP67
- Encrypted ZigBee Communication
- Safety protection relay integrated

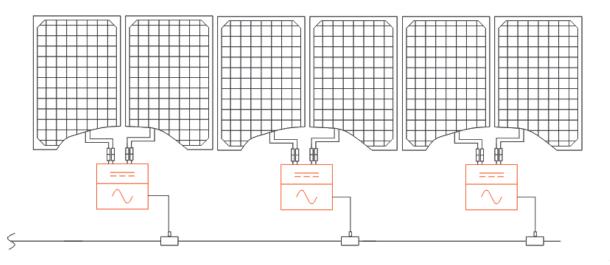
PRODUCT FEATURES

APsystems 3rd generation of dual microinverters are reaching unprecedented power outputs of 730VA or 880VA to adapt to today's larger power module. With 2 independent MPPT, encrypted ZigBee signals, the DS3-L and DS3 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%, a unique integration with 20% less components, APsystems DS3-L & DS3 are a game changer to residential and commercial PV.

WIRING SCHEMATIC



Model	DS3-L	DS3	
Region	APAC		
nput Data (DC)			
Recommended PV Module Power (STC) Range	300Wp-550Wp+	400Wp-660Wp+	
Peak Power Tracking Voltage	28V	28V-45V	
Operating Voltage Range	26V	26V-60V	
Maximum Input Voltage	60	60V	
Maximum Input Current	18A x 2	20A x 2	
Output Data (AC)			
Maximum Continuous Output Power	730VA	880VA	
Nominal Output Voltage/Range ⁽¹⁾	230V/184-253V		
Nominal Output Current	3.17A	3.8A	
Nominal Output Frequency/Range ⁽¹⁾	50Hz/48-51Hz or	60Hz/59.3-60.5Hz	
Power Factor(Default/Adjustable)	0.99/0.8 leading0.8 lagging		
Maximum Units per 2.5mm ² Branch ⁽²⁾	7	6	
Efficiency			
Peak Efficiency	9	97%	
CEC Efficiency	96	96.5%	
Nominal MPPT Efficiency	99	99.5%	
Night Power Consumption	20	20mW	
Mechanical Data			
Operating Ambient Temperature Range ⁽³⁾	- 40 °C t	- 40 °C to + 65 °C	
Storage Temperature Range	- 40 °C t	- 40 °C to + 85 °C	
Dimensions (W x H x D)	263mm x 218mm x 41.2mm	263mm x 218mm x 42.5mm	
Weight	2.7kg	3.1kg	
AC Bus Cable	2.5mr	2.5mm²(23A)	
DC Connector Type	Stäubli MC4 PV-AI	Stäubli MC4 PV-ADBP4-S2&ADSP4-S2	
Cooling	Natural Conve	Natural Convection - No Fans	
Enclosure Environmental Rating	IP	IP67	
Features			
Communication (Inverter To ECU) ⁽⁴⁾	Encrypt	ed ZigBee	
		High Frequency Transformers, Galvanically Isolated	
Isolation Design		Energy Management Analysis (EMA) system	
	Energy Management	10 Years Standard ; Extended Warranty Optional	
Isolation Design Energy Management Warranty ⁽⁵⁾			
Energy Management			

IEC 62116; AS/NZS 4777.2; MEA; PEA;

most recent update found at web : global.APsystems.com

Specifications subject to change without notice please ensure you are using the

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EN 62109-1; EN 62109-2; EN 61000-6-1; EN 61000-6-3; EN 50549-1; Nominal voltage/frequency range can be extended beyond nominal if required by the utility.
Imits may vary. Refer to local requirements to define the number of microinverters per branch in your area.
The inverter may enter to power de-grade mode under poor ventilation and heat dissipation installation environment.
Recommend no more than 80 inverters register to one ECU for stable communication.
To be eligible for the warranty. *Psystems microinverters need to be monitored via the EMA portal.* Please refer to our warranty T&Cs available on global. *APsystems.com*.

APsystems Shanghai

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