APsystems
ALTENERGY POWER

Solar Industry Leader in
Microinverter Technology

DS3 series
The most powerful duo microinverter

• A microinverter connects two PV modules
• Maximum output power of 730VA or 880VA (2 versions available) • One MPPT for each module • Adjustable power factor (RPC) • Maximum reliability, IP67 • Encrypted Zigbee communications • Built-in VDE relays

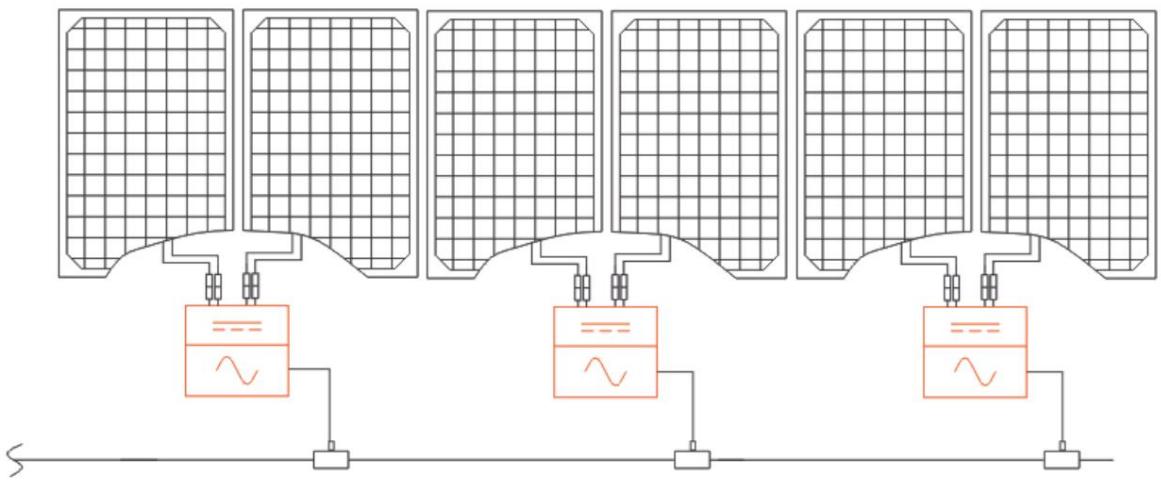
PRODUCT CHARACTERISTICS

The 3rd generation of APsystems duo microinverters achieves unprecedented output powers of 730 VA or 880 VA to adapt to the high power photovoltaic modules available today and tomorrow. Equipped with 2 independent MPPTs, encrypted Zigbee communication, the DS3L and DS3 benefit from a brand new architecture and are fully compatible with the QS1 and YC600 micro-inverters.

Their innovative and compact design offers a lighter product while maximizing energy production. Components are encapsulated with silicone to reduce stress on electronics, aid heat dissipation, improve sealing properties, and ensure maximum system reliability through rigorous testing methods including accelerated life testing . 24/7 energy access via apps or web portal facilitates remote diagnostics and maintenance.

The new DS3 series is interactive with electrical networks thanks to a feature called RPC (Reactive Power Control) to better manage the photovoltaic power peaks in the grid. With a performance and efficiency of 97%, a unique integration with 20% of components in less, APsystems' DS3L & DS3 microinverters are a game-changer for residential and tertiary solar.

CABLE SCHEMATICS



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Data sheet | DS3 Series Microinverters

Model	DS3L	DS3
Input data (DC)		
Recommended module power (STC)	255Wp-550Wp+	300Wp-660Wp+
MPPT Voltage Range	30V-55V	
Operating voltage range	16V-60V	
Maximum DC input voltage	60V	
Maximum DC input current	18A x 2	20A x 2
Output data (AC)		
Maximum output power	730VA	880VA
Rated output voltage*	230V/184V-253V	
Rated output current	3.2A	3.8A
Maximum frequency variation range*	50Hz/48Hz-51Hz	
Power Factor (Adjustable)	0.99/0.8 lead…0.8 lag	
Maximum number of units per 20A branch**	6	5
Yield		
Efficiency maximum	97%	
CEC efficiency	96.5%	
Nominal MPPT efficiency	99.5%	
Night power consumption	20mW	
Mechanical data		
Operating ambient temperature range	-40°C to +65°C	
Internal operating temperature range	-40°C to +85°C	
Dimensions (W x H x D)	281mm × 231mm × 41.3mm	
Weight	2.6kg	
AC output cable section	2.5mm2	
Type of connectors	MC4	
Cooling system	Convection - No Fan	
Protection sign	IP67	
Features		
Communication (between microinverters and ECU)	Encrypted Zigbee communications	
Transformer type	High frequency transformer, galvanically isolated	
Monitoring	Access to monitoring options via the EMA platform (Energy Management Analysis) 10	
Guarantee***	years standard; 20 years optional	
Compliance		
Electrical network compliance, Safety and EMS	EN 62109-1; EN 62109-2; EN 61000-6-1; EN 61000-6-3; UNE217002, UNE206007-1, RD647, RD1699, RD413; CEI 0-21; VDE0126-1-1,VFR2019,UTE C15-712-1,ERDF-NOI-RES_13E; EN 50549-1; VDE-AR-N 4105	

The voltage frequency range can be extended beyond if requested by the energy supplier. **Maximum number of units per leg may vary. Refer to local requirements * To qualify for warranty, APsystems microinverters must be supervised through the EMA portal. Please refer to our warranty terms and conditions available at emea.APsystems.com*

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Specifications subject to change without notice, make sure you have the most recent version, posted on our website: emea.APsystems.com

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